

C  
1242m  
1885/86

ANNOUNCEMENT  
OF THE  
TWENTY-THIRD ANNUAL COURSE OF LECTURES  
OF THE  
MEDICAL DEPARTMENT

UNIVERSITY OF CALIFORNIA.  
THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.  
CATALOGUE OF STUDENTS AND GRADUATES.

1886.

---

Alumni of the Medical Department of the University,  
and others desiring to receive the ANNOUNCEMENT regularly, are requested  
to send their names and addresses to the Dean.

---

SACRAMENTO:  
STATE OFFICE, : : : JAMES J. AYERS, SUPT. STATE PRINTING.  
1886.

Deposited



ANNOUNCEMENT  
OF THE  
TWENTY-THIRD ANNUAL COURSE OF LECTURES  
OF THE  
MEDICAL DEPARTMENT

UNIVERSITY OF CALIFORNIA.

WITH

CATALOGUE OF STUDENTS AND GRADUATES.

1886.

---

Alumni of the Medical Department of the University,  
and others desiring to receive the ANNOUNCEMENT regularly, are requested  
to send their names and addresses to the Dean.

---

SACRAMENTO:  
STATE OFFICE, :::: JAMES J. AYERS, SUPT. STATE PRINTING.  
1886.

## CALENDAR.

---

THE SESSION OF 1886 will open March first, and continue nine months.

THE DIDACTIC LECTURES are delivered at the College Building (Toland Hall), Stockton Street, below Chestnut, San Francisco.

THE CLINICAL LECTURES are delivered at the City and County Hospital, Twenty-second Street and Potrero Avenue.

THE ANNUAL COMMENCEMENT for conferring the Degree of Doctor of Medicine will be held early in December, in San Francisco.

IN EXCHANGE.

Univ. of Nebraska

AUG 2 1903

## TWENTY-THIRD ANNUAL COURSE OF INSTRUCTION.

---

### SESSION OF 1886.

The Medical Department of the University of California was organized in 1872 as an integral part of the State's educational center. It was among the first to adopt the higher standard of medical education; having, as early as 1875, instituted a three years' course and graded studies, and in 1884 the length of the term was increased to nine months, commencing February first and terminating October thirty-first, with a vacation of two weeks in the middle of the term. Beginning with the session of 1886, the term will commence on March first and terminate November thirtieth. Other requirements tending to elevate the educational status of medicine as a science and give additional value to the diploma of the Medical Department of the University of California, have been established, and will be found referred to in the latter part of this announcement. The advantages accruing to the student from these advances must be apparent, and at once impress him with the fact that they will more than compensate for the additional time and application involved.

The changes introduced into the curriculum of this school in 1875 and 1884, and now in force, may be summarized as follows:

1. *Increase of the time of study to three years.* Three regular courses of lectures of nine months each, attended through three several years, are required before the student can present himself for graduation. Students are also required to attend the clinics regularly throughout the term.

2. *Yearly examinations.* At the beginning of each session examinations are held to determine the progress of the student during the year past; his advancement depending on the result of such examinations. These examinations are *not final*, and the examination for graduation, at the close of the third year, includes the whole domain of medical study.

3. *Graded studies.* By this arrangement the student is thoroughly drilled in the elementary subjects before proceeding higher. He is, however, expected to attend all the lectures, giving most of his hours of study to the subjects allotted to his own year.

The following are the subjects apportioned to each year's study:

*First Year.* Anatomy, Physiology, Chemistry, and Materia Medica. Chemical and Physiological Laboratory work. Dissections. (Dispensary Clinics optional.)

*Second Year.* Anatomy, Physiology, Medical Chemistry, Principles and Practice of Medicine, Principles and Practice of Surgery, Therapeutics (Medical and Surgical), Obstetrics and Pathology. Clinical Medicine, Clinical and Operative Surgery at Hospital. Dispensary Clinics, Dissections.

*Third Year.* Principles and Practice of Medicine, Principles and Practice of Surgery, including Operative and Minor Surgery with Bandaging, Therapeutics (Medical and Surgical), Obstetrics and Gynecology, with special clinics,

Ophthalmology, Otology, etc., with special clinics, Diseases of Children, etc., with special clinics, Hygiene, Medical Jurisprudence and Mental Diseases, with special clinics. Regional Anatomy, Physiology of the Special Senses, Physiological Chemistry, and Pharmacology. Clinical Medicine, Clinical Surgery, and Medical and Surgical Pathology, at Hospital. Dispensary Clinics.

Graduates of this College, and those holding certificates of attendance upon lectures, are credited for the full time of their medical studies by the Royal College of Surgeons of England, Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow.

---

#### LOCATION.

While the several other Colleges of the State University are clustered at Berkeley, its Medical Department is, for obvious reasons, situated in San Francisco. The Medical College building, known as "Toland Hall," in honor of its illustrious founder, is one of the most complete and stately in the country. It is located near North Beach, overlooking the Golden Gate, a locality favoring the health and industrious habits of the students.

The Lecture Hall of the College is capable of seating five hundred persons; the Clinical Amphitheater is about equally as capacious; the Museum contains an extensive collection of specimens and preparations; the Dissecting Room is fitted up with all the modern improvements; the Laboratory is replete with all chemicals and apparatus necessary for practical teaching. A suite of apartments in the building is set apart for the Dispensary Clinics.

The College stands near the terminus of the Omnibus line of street cars, and the terminus of the North Beach and Mission line, is distant one block further.

---

#### THE COLLEGIATE YEAR.

Contrary to the custom of Eastern Medical Colleges, the lectures in this school are delivered during the Spring and Summer months. The peculiar climate of San Francisco renders Spring and Summer far the preferable season for prosecuting medical studies; hence, the regular session will be held from March to December. During this period, and indeed largely throughout the other months of the year also, cool trade-winds blow across the city daily, moderating the temperature, and particularly favoring the study of practical anatomy and necroscopy. The student in this city, enjoys rare natural advantages for the healthful pursuit of his labors, such a contingency as his detention from lectures or clinics by stress of weather being absolutely unknown.

The Session for 1886 will begin March first, and terminate November thirtieth. Two of the three months, which, prior to 1884, constituted the Preliminary or Spring Term, being made a part of the regular course. During this term all the branches of medicine and surgery are taught, didactically and clinically. Regular clinics are held three days in the week at the City and County Hospital, where the professors of the clinical chairs have charge of wards, and possess every facility for the instruction of students; clinics are also held at the College building. Lectures are given daily by the professors; and evening recitations are held three times a week.



### SCHEDULE OF STUDY.

The following is the Order of Exercises of the Medical Department of the University of California, Session of 1886, commencing March first.

MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.	SATURDAY.
9 A. M. Lecture. Prof. McNutt.	9 A. M. Hosp. Clinic. Prof. Kane.	9 A. M. Lecture. Prof. Swan.	9 A. M. Hosp. Clinic. Prof. Kane.	9 A. M. Lecture. Prof. McNutt.	9 A. M. Hosp. Clinic. Prof. Kane.
10 A. M. Lecture. Prof. Cole.	10 A. M. Hosp. Clinic. Prof. Wilder.	10 A. M. Lecture. Prof. Cole.	10 A. M. Hosp. Clinic. Prof. Cole.	10 A. M. Lecture. Prof. Cole.	10 A. M. Hosp. Clinic. Prof. Wilder.
11 A. M. Lecture. Prof. Lengfeld.	11 A. M. Hosp. Clinic. Prof. McLean.	11 A. M. Lecture. Prof. Taylor.	11 A. M. Hosp. Clinic. Prof. McLean.	11 A. M. Lecture. Prof. Taylor.	11 A. M. Hosp. Clinic. Prof. McLean.
12 M. Lecture. Prof. Terrill.		12 M. Lecture. Prof. Lengfeld.		12 M. Lecture. Prof. Terrill.	
3 P. M.  DISPENSARY CLINICS.	2 P. M. Lecture. Prof. Ayer.  3 P. M. Lecture. Prof. Fish.  4 P. M. Lecture. Prof. Lewitt.	3 P. M. Lecture. Dr. Sabey.  4 P. M. Dispensary Clinics.	2 P. M. Lecture. Mental Diseases.  3 P. M. Lecture. Prof. Fish.  4 P. M. Lecture. Prof. Lewitt.	3 P. M.  DISPENSARY CLINICS.	

During their first year students will be required to work in the Chemical and Physiological Laboratories from 9 to 10 o'clock A. M., and dissect from 10 to 12 o'clock A. M., daily.

During their second year students will be required to dissect from 3 to 5 o'clock P. M., Monday, Wednesday, and Friday.

## METHODS OF INSTRUCTION.

The course of studies pursued at this school comprises Clinical, Didactic, and Laboratory teaching. Special prominence is given to the former, although it is endeavored that the three methods shall be so blended as to form one harmonious whole.

### CLINICAL TEACHING.

*In Clinical Teaching*, the plan pursued by the several Clinical Professors, has for its aim the actual confronting of the student with the phenomena of disease, that the senses of sight, hearing, and touch may be trained to aid in forming a correct diagnosis.

The facilities for clinical studies open to the students of the University have been largely increased. Full access is given to the City and County Hospital, a complete and modern structure containing five hundred beds, and presenting for observation, perhaps, every known form of disease, including those peculiar to tropical and South America. The staff of the Hospital is largely drawn from the Faculty of the University, giving them unusual vantages for develop-

ing clinical material. The Professor of Clinical Surgery has charge of three surgical wards (thirty-two beds in each), the Professor of Clinical Medicine two wards, the Professor of Obstetrics and Gynecology, and the Professor of Ophthalmology, one ward each. Autopsies are conducted three times a week in the Mortuary by the Pathologist. A large operating theater has been erected, where the major and minor operations of surgery are performed in view of the class. Operating days are Tuesday and Saturday. The Hospital is situated at the junction of Twenty-second Street with Potrero Avenue, and is accessible from the North Beach and Mission cars, the Omnibus, and the Mission Street lines.

### Hospital Clinics.

**Clinical Surgery.**—Professor McLean delivers clinical lectures on Practical and Operative Surgery at the City and County Hospital, on Tuesdays, Thursdays, and Saturdays, throughout the session. Especial attention is given, in a ward devoted to the purpose, to the conduct of disorders of the genito-urinary organs and venereal diseases. A course on Minor Surgery is also given. Instruction in this branch includes the application of bandages and the various dressings used in treating wounds, fractures, dislocations, etc.

**Clinical Medicine.**—Professor F. B. Kane delivers bedside lectures at the same Hospital each Tuesday, Thursday, and Saturday. His method of education is at once attractive and thorough, consisting of questions and answers on each patient examined, discussions on the plans of treatment proposed, and the examination of new cases by each senior student in rotation, in presence of the class.

**Gynecology and Practical Midwifery.**—Professor R. Beverly Cole holds a Thursday Clinic, including a course of instruction in Operative Gynecology, the use of instruments, appliances, etc. He will also devote a portion of his lectures to Clinical Midwifery, taking, as illustration, such cases of interest as may occur in the Lying-in ward from time to time. The senior students will each, in rotation, have opportunities for the study of Practical Obstetrics at the bedside.

**Ophthalmology and Otology.**—Professor Wilder will deliver one didactic lecture a week during the course, covering the subjects of Larynx, Pharynx, Naso-Pharynx and Nasal Cavities, Eye and Ear. These lectures will be illustrated by models, charts, and blackboard drawings. He will also conduct two clinics a week at the City and County Hospital, where in addition to operative and bad cases, he has a large out-patient clinic, including many children, with ample illustrations of cases as they appear in daily practice. At these clinics the third year students are required in turn, to keep the record of the cases, with a view to cultivating a habit of case writing. Once in two weeks Professor Wilder has an evening "Quiz" for the third year students, which is conducted in turn by the students themselves, under the personal supervision of the Professor.

### College Dispensary Clinics.

The Faculty has organized a Free Dispensary Clinic, which is held at the college building, and conducted as follows:



**Surgery.**—Mondays and Fridays, at 3 p. m., by Professor W. B. Lewitt, M.D., and C. G. Kenyon, M.D.

**Medicine.**—Mondays and Fridays, at 3 p. m., by Luke Robinson, M.D., M.R.C.P., Eng., and H. W. Dodge, M.D.

**Diseases of the Nervous System.**—Wednesdays, at 4 p. m., by Jules Simon, M.D.

## DIDACTIC TEACHING.

A brief outline of the course pursued in the several departments will be found in the following summary:

**Surgery.**—Professor Taylor delivers two lectures each week on the art and science of surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon operative surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

**Practice of Medicine.**—Professor McNutt presents in his lectures during this course the principles and practice of medicine in its modern aspects. He endeavors to give a description of the different diseases, their etiology, pathology, symptoms, diagnosis, prognosis, and treatment. The various pathological changes are demonstrated by means of plates, preparations, and recent specimens of diseased parts.

**Obstetrics.**—The science and art of obstetrics are taught by Professor R. Beverly Cole. His lectures are fully illustrated by the use of colored plates and drawings, prepared specimens, and the manikin. The principal obstetric operations are performed on the cadaver in presence of the class.

**Physiology.**—The lectures in this department by Professor Fish embrace a consideration of both general and special physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared exclusively for these lectures. Besides which, the large collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary, and the use of the microscope fully taught.

**Therapeutics (Medical and Surgical).**—The lectures in this department, by Professor Terrill, will explain the physiological actions and therapeutic indications of all agents, medical and surgical, used for the cure, alleviation, or prevention of diseases.

The action of drugs will be shown by practical demonstrations upon living animals.

**Materia Medica and Medical Chemistry.**—Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting particular attention to that part of Materia Medica and Chemistry which pertains more particularly to practical medicine and pharmacy, and using for this purpose all necessary philosophical and chemical apparatus. Special attention will be given to Pre-

scription Writing, Urine Analysis, and Toxicology, and to the nature, origin, physical and chemical, properties of the various remedies official in the United States Pharmacopœia.

Dr. Winslow Anderson, assistant to the Chair of Materia Medica and Medical Chemistry, will conduct the Laboratory investigations, including qualitative analysis and recitations at least two hours each week during the term.

**Anatomy.**—Professor Lewitt's lectures on Anatomy are illustrated by the cadaver, and by both wet and dry preparations, models, manikins, and drawings, and include a course on general, special, and topographical anatomy. The Dissecting Room is spacious, well ventilated, lighted from above, and provided with every convenience. It is open throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When the dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected.

**Gynecology.**—This subject is taught didactically and clinically by Professor Cole. The use of gynecological instruments is carefully shown, and the several procedures explained by means of colored charts, diagrams, and preparations.

**Hygiene.**—The importance now attaching to the science of Hygiene induced the Regents and Faculty to give it a place in the curriculum of the school. Dr. Washington Ayer has been recently appointed to fill the vacancy caused by the death of Dr. F. W. Hatch.

**Diseases of the Skin.**—This branch will be taught both clinically and didactically, by Professor Terrill, who will endeavor to familiarize the student with the appearance and symptoms of the various affections of the skin.

**Diseases of Children.**—Professor Swan will devote one hour each week to this subject, illustrating his lectures by notes drawn from an unusually large experience in the management of diseases peculiar to children.

---

#### HOSPITAL INTERNES.

The position of Interne in the City and County Hospital is open each December to three members of the graduating class who recommend themselves to the Faculty by their diligence and general fitness for the appointment. Internes receive their board and lodging for one year, and secure opportunities for accumulating an invaluable experience in every field of practical medicine and surgery.

## THE HIGHER STANDARD OF EDUCATION.

### REQUIREMENTS FOR ADMISSION.

In addition to the advanced curriculum already instituted, namely, a three years' graded course of study, with yearly examinations, and terms of nine months.

A matriculation examination is required in the following subjects:

1. ENGLISH.—A written composition, not to exceed one page foolscap in length, upon some subject connected with American history or biography.
2. ARITHMETIC.
3. GEOGRAPHY.
4. ELEMENTARY CHEMISTRY.

No matriculation examination will be required of candidates who have received a Collegiate Degree, or who have passed the examination for admission to, or are graduates of the College of Letters or of Science of the University of California, or who have passed the matriculation examination of any recognized college, or who present a certificate covering the required subjects from a recognized Normal or High School.

Students who have attended one full course in any recognized Medical College shall, upon satisfactory examination in the curriculum provided for the first year, be admitted as students of the *second course* in the University of California.

Students who have attended two courses in any recognized Medical College, shall be admitted as students of the *third course* in this institution, on passing a satisfactory examination in the curriculum provided for the second year.

Graduates of other regular Medical Colleges in good standing, shall be admitted as students of the *third course* in this institution without any examination.

Graduates of Pharmaceutical and Dental Colleges in good standing, are admitted to the second year without examination.

Theological and Law Students will be admitted to special lectures without examination.

The Matriculation examination will be conducted at the College building on Monday, March first, at 9 A. M.

---

### REQUIREMENTS FOR GRADUATION.

I. The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years, and be of good moral character.

II. He must have studied medicine three full years, and must have attended three regular courses of lectures, the last of which must have been that of the University of California.

III. He must have passed the required examinations, written or oral.

IV. He must have pursued the study of practical anatomy during at least two sessions, and must present certificates of having dissected every part of the cadaver.

V. He must have paid in full the College fees, including the graduation fee.

**BOARDING.**

The expense of living in San Francisco is not great. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building. Students from a distance may learn the address of these boarding houses, and other information, by calling on the Dean of the Faculty, Dr. R. A. McLean, 603 Merchant Street, corner of Montgomery.

**FEES.**


---

Matriculation Fee (paid but once) .....	\$ 5
Demonstrator's Ticket.....	10
Fee for the First Course of Lectures.....	130
Fee for Second Course of Lectures.....	130
No Fee is required for the Third Course of Lectures.	
Graduating Fee.....	40

---

**TEXT-BOOKS AND WORKS OF REFERENCE.**

- ANATOMY—Gray, Holden, Quain, Ford's Questions.  
 PHYSIOLOGY—Dalton, Flint, Foster.  
 CHEMISTRY—Lloyd's Chemistry of Medicines, Bartley, Witthaus.  
 HISTOLOGY—Rindfliesch, Stricker.  
 SURGERY—Ashurst, Bryant, Agnew, Toland, Erichsen.  
 PRACTICE OF MEDICINE—Roberts, Reynolds, Neimeyer.  
 CLINICAL MEDICINE—Da Costa, Hartshorne, Flint.  
 MIDWIFERY—Leishman, Playfair, Bedford, Lusk.  
 GYNECOLOGY—Thomas, Emmet, Sims.  
 MATERIA MEDICA—United States Pharmacopœia, Dispensatories (U. S. and National).  
 THERAPEUTICS—Wood, Bartholow, Ringer.  
 OPHTHALMOLOGY—Williams, Wells.  
 OTOTOLOGY—Roosa, Burnett.  
 RHINOSCOPY—Robinson, McKenzie.  
 PEDIATRICS—Lewis Smith, Meigs and Pepper, Eustace Smith.  
 DERMATOLOGY—Fox, Neumann, Duhring.  
 MENTAL DISEASES AND MEDICAL JURISPRUDENCE—Maudsley, Bucknell and Tuke, Reese, Taylor.  
 PATHOLOGY—Wagner, Delafield, Coates.  
 LARYNGOLOGY—McKenzie, Cohen.  
 PRESCRIPTION WRITING—Mann, Gerrish.  
 URINE ANALYSIS—Legge, Hoffmann, and Ultzmann.

## Graduates—1885.

Howell V. Armistead .....	Modesto, California.
Robert O. Baldwin .....	Danville, California.
Addison C. Collins .....	Davisville, California.
John Gallwey .....	San Francisco, California.
Katherine I. Howard .....	San Francisco, California.
Daniel D. Lustig, Ph.G. ....	San Francisco, California.
Theodore A. Nichols .....	Mission San José, California.
Edward L. Perrault .....	San Francisco, California.
Wilber J. Wilcox .....	Oakland, California.
John M. Williamson .....	Vallejo, California.
Henry N. Winton .....	Haywards, California.
W. E. Josephine Woods .....	San Francisco, California.
David Wooster .....	San Francisco, California.

## Matriculants—1885.

Roda E. Alexander .....	San José, California.
Maud E. Beardsley .....	San Francisco, California.
Ernest S. Brown .....	San Francisco, California.
Wm. P. Chalmers .....	Watsonville, California.
W. R. Cluness .....	Sacramento, California.
Frank S. Cook .....	Tucson, Arizona Territory.
Wm. E. Conlan .....	San Francisco, California.
Robert E. Cowan .....	San Francisco, California.
Jas. P. H. Dunn, B.S. ....	Berkeley, California.
Michael J. Fottrell .....	San Francisco, California.
F. H. Freeman .....	San Francisco, California.
Andrew J. Freese .....	Quincy, California.
Frank Garcia .....	San Leandro, California.
George I. Glaze .....	San Francisco, California.
C. C. Gleaves .....	Anderson, California.
A. K. Happersberger, A.B. ....	San Francisco, California.
Thos. S. Henry .....	Oakland, California.
Joseph S. Hernden .....	Chehalis, Washington Territory.
Gertrude E. Howard .....	Portland, Oregon.
Lieut. J. A. Hutton, U. S. A. ....	Berkeley, California.
Thos. H. Kingsley .....	San Francisco, California.
F. Kirchhoffer .....	San Francisco, California.
Manual S. Leon .....	Tucson, Arizona Territory.
A. H. Mays .....	Stockton, California.
John T. McLean .....	Modesto, California.
August L. Morrill .....	Colima, Mexico.
Otto J. Mueller .....	San Francisco, California.
George W. O'Donnell .....	San Francisco, California.
J. A. Oliver .....	San Francisco, California.
Benj. A. Plant .....	Sacramento, California.
W. E. Reardon .....	San Francisco, California.
George Rothganger, A.B. ....	San Francisco, California.



John Shannon .....	San Francisco, California.
James W. Sheehy, B.S. ....	San Francisco, California.
Henry Snow, A.B. ....	San Rafael, California.
Julius Soboslay .....	San Francisco, California.
Henry L. Tevis .....	San Francisco, California.
John Waxon .....	Freeport, California.
Kemlo R. Wilson .....	San Francisco, California.
N. P. Wynne .....	San Francisco, California.

## SUMMARY.

Graduates, 1885 .....	13
Undergraduates, 1885 .....	40
Total .....	53

## COMPLETE LIST OF GRADUATES.

Addington, D. M. ....	Michigan Bar, California .....	1879.
Allen, Edward O. ....	New York, N. Y. ....	1875.
Anderson, J. A. ....	Kansas .....	1873.
Anderson, Winslow .....	San Francisco, California .....	1884.
Armistead, Howell V. ....	Modesto, California .....	1885.
Baldwin, Robert O. ....	Dansville, California .....	1885.
Barber, Edward T. ....	El River, California .....	1896.
Bates, Charles B. ....	Oroville, California .....	1868.
Bates, Walter E. ....	Oakland, California .....	1881.
Beardsley, E. M. ....	San Francisco, California .....	1881.
Beaumeister, B. H. ....	San Francisco, California .....	1882.
Beede, William M. S. ....	Bakersfield, California .....	1884.
Benedict, C. W. ....	Virginia .....	1875.
Bettelheim, A. F. ....	San Francisco, California .....	1880.
Biggs, F. P. ....	Valparaiso .....	1874.
Blake, Chas. M. ....	San Francisco, California .....	1876.
Blake, James W. ....	San Francisco, California .....	1874.
Bordé, Henry J. ....	San José, California .....	1883.
Bradbury, Geo. F. ....	San Francisco, California .....	1878.
Braman, J. J. ....	Berkeley, California .....	1876.
Brierly, Conant B. ....	San Francisco, California .....	1876.
Briggs, M. W. ....	Santa Barbara, California .....	1870.
Bromly, R. I. ....	Oakland, California .....	1878.
Brown, Geo. J. ....	Biggs Station, California .....	1876.
Bruns, W. C. ....	San Francisco, California .....	1878.
Buckley, Vincent P. ....	San Francisco, California .....	1884.
Burchard, L. S. ....	Oakland, California .....	1882.
Cairns, John C. ....	San Francisco, California .....	1867.
Calbreath, John F. ....	Weston, Virginia .....	1875.
Caldwell, H. H. ....	San José, California .....	1880.
Caldwell, Robert .....	San José, California .....	1869.
Callaghan, D. T. ....	Grand Gulf, Mississippi .....	1875.

Cameron, James S. ....	San Francisco, California .....	1868.
Chaigneau, V. A. ....	San Francisco, California .....	1876.
Churchill, Leonard .....	San Francisco, California .....	1871.
Clark, J. J. ....	San Francisco, California .....	1869.
Clark, Wm. D. ....	San Francisco, California .....	1884.
Clinton, C. A. ....	San Francisco, California .....	1881.
Cochran, W. A. ....	San Francisco, California .....	1869.
Collins, Addison C. ....	Davisville, California .....	1885.
Connolly, John J. ....	San Francisco, California .....	1876.
Connolly, Thos. E. ....	Vallejo, California .....	1884.
Corbett, S. J. ....	San Francisco, California .....	1868.
Cox, Thos. H. ....	San Francisco, California .....	1873.
Curran, Mary K. ....	San Francisco, California .....	1878.
Damour, Ferdinand .....	San Francisco, California .....	1864.
D'Ancona, Arnold A., A.B. ....	San Francisco, California .....	1884.
Davie, J. C. Jr. ....	Victoria, Vancouver's Island .....	1864.
Davidson, Joseph R. ....	Salem, Oregon .....	1875.
Dawson, Alson .....	New York, New York .....	1875.
Day, John G. ....	San Francisco, California .....	1884.
Dean, Andrew J. ....	San Francisco, California .....	1881.
Delmont, Francois .....	San Buenaventura, California .....	1874.
Depuy, Anson A. ....	San Francisco, California .....	1881.
Dodge, Henry W. ....	San Francisco, California .....	1884.
Downs, George W. ....	Vallejo, California .....	1879.
Drinkhouse, E. J. C. ....	San Francisco, California .....	1865.
Dubois, A. L. ....	Lincoln, California .....	1864.
Duncan, S. C. ....	Vallejo, California .....	1877.
Enright, Chas. M., A.B. ....	Santa Clara, California .....	1884.
Evans, C. W. ....	Modesto, California .....	1881.
Fahn, C. N. ....	San Francisco, California .....	1865.
Fine, Andrew .....	San José, California .....	1866.
Foote, Gilbert .....	Lakeford, California .....	1879.
Foulkes, J. F., Jr. ....	Oakland, California .....	1880.
Frost, Joseph .....	Vallejo, California .....	1877.
Gale, Herbert A. ....	Sacramento, California .....	1879.
Gallwey, John .....	San Francisco, California .....	1885.
Gates, Frank H. ....	San Francisco, California .....	1884.
Gilham, G. W. ....	Oakland, Oregon .....	1881.
Grattan, E. L. ....	San Francisco, California .....	1881.
Gros, Edward .....	San Francisco, California .....	1865.
Guilemard, A. J. ....	San Francisco, California .....	1878.
Hackett, John .....	San Francisco, California .....	1867.
Haile, C. S. ....	Alameda, California .....	1869.
Hampton, James E. ....	San Francisco, California .....	1871.
Handy, J. C. ....	San Francisco, California .....	1864.
Hansen, Thomas C. ....	San Francisco, California .....	1867.
Harmon, R. ....	Oakland, Oregon .....	1879.
Harris, Thomas W. ....	Russellville, Indiana .....	1875.
Heavitt, Granville .....	San Francisco, California .....	1866.

Heimimann, J. M.	San Francisco, California	1877.
Hicks, Young E.	Merced, California	1874.
Hodgdon, W. H. A.	San Francisco, California	1876.
Hook, Walter E.	Walnut Creek, California	1876.
Hopkins, T. P.	San Francisco, California	1880.
Howard, Katherine I.	San Francisco, California	1882.
Howell, H. H.	Knights Ferry, California	1879.
Hughes, Jerome A.	San Francisco, California	1883.
Hughes, L. J.	San Francisco, California	1879.
Johnstone, A.	San Francisco, California	1879.
Josephi, Simon E.	East Portland, Oregon	1877.
Keane, George B.	San Francisco, California	1872.
Kirkpatrick, C. A.	Redwood City, California	1871.
Kirkwood, J. W.	Salem, Oregon	1876.
Kosbue, A. Emil	Hamburg, Germany	1875.
Kurtz, Joseph	Los Angeles, California	1875.
Laidlaw, Horace	Oakland, California	1880.
Le Fevre, J. P.	Plumas County, California	1881.
Lewitt, F. A.	San Francisco, California	1878.
Lindenberger, W. H.	Bartlett Springs, California	1876.
Lingo, Marin B.	Salem, Oregon	1866.
Lonigo, Emile V.	San Francisco, California	1883.
Lord, Franklin F.	San Francisco, California	1880.
Lovett, Wm. B.	Oakland, California	1883.
Lundborg, Gustaf W.	San Francisco, California	1883.
Lustig, Daniel D., Ph.G.	San Francisco, California	1885.
Lyford, L. Dexter	San Francisco, California	1872.
Mackenzie, J. H.	Edinburgh, Scotland	1870.
Martineaut, E. D.	San Francisco, California	1873.
Mason, Benjamin F.	San Francisco, California	1875.
Matthewson, J. M.	San Francisco, California	1882.
Mays, Wm. H.	San Francisco, California	1873.
McColl, G. F.	East Portland, California	1877.
McCormack, —	St. Helena, California	1876.
McCoy, Juan W.	Bell's Ridge, California	1884.
McDermott, Wm. P.	San Francisco, California	1874.
McDonald, J. J.	San Francisco, California	1877.
McGuire, Lucius	San Francisco, California	1868.
McLaughlin, M. A.	San Francisco, California	1878.
McLean, Robert A.	Modesto, California	1874.
Mervy, Emile C.	San Francisco, California	1883.
Merritt, T. W.	San Francisco, California	1882.
Meyers, R. C.	San Francisco, California	1880.
Miller, Chas. F.	San Francisco, California	1874.
Miller, John A.	San Francisco, California	1875.
Minor, John F.	San Francisco, California	1876.
Moody, Mary F.	San Francisco, California	1882.
Morgan, F. E.	Santa Cruz, California	1881.
Muelier, H. E.	Brooklyn, California	1880.

Muenter, Henry.....	Stockton, California.....	1882.
Newmark, Valentine.....	San Francisco, California.....	1868.
Nichols, Theodore A.....	Mission San José, California.....	1885.
Nottage, George E.....	Stockton, California.....	1874.
Nuttall, George H. F.....	San Francisco, California.....	1884.
Olds, Wm. H.....	San Francisco, California.....	1881.
O'Neill, A. A.....	San Francisco, California.....	1867.
O'Neill, J. C.....	Vallejo, California.....	1873.
Oster, Chas.....	Oakland, Oregon.....	1878.
Partsch, Herman.....	San Francisco, California.....	1884.
Paton, Chas. J.....	San Francisco, California.....	1883.
Patterson, T. J.....	Visalia, California.....	1882.
Payne, J. R.....	San Francisco, California.....	1882.
Perrault, Edward L.....	San Francisco, California.....	1885.
Pescia, Joseph.....	San Francisco, California.....	1877.
Plummer, Richard H.....	Yolo, California.....	1866.
Pond, Henry M.....	San Francisco, California.....	1886.
Pond, W. B.....	San Francisco, California.....	1864.
Pope, Horace E.....	San Francisco, California.....	1876.
Powell, J. M.....	Mammoth, Oregon.....	1876.
Pressley, J. B.....	Santa Rosa, California.....	1882.
Prevost, J. Renny.....	San José, California.....	1866.
Pruett, J. A.....	Pendleton, Oregon.....	1878.
Quinlan, Albert P.....	San Francisco, California.....	1876.
Reardon, T. B.....	Oroville, California.....	1882.
Reed, Clarence E.....	Placerville, California.....	1883.
Reich, George A.....	San Francisco, California.....	1877.
Reynolds, George E.....	San Francisco, California.....	1877.
Richardson, J. A.....	Amity, Oregon.....	1866.
Riley, J. S.....	Vallejo, California.....	1883.
Robertson, John W.....	San Francisco, California.....	1880.
Robinson, Luke.....	Petaluma, California.....	1867.
Rorke, James.....	San Francisco, California.....	1876.
Rucker, H. N.....	Santa Clara, California.....	1870.
Rupe, Samuel H.....	Healdsburg, California.....	1866.
Sabey, L. A.....	San Francisco, California.....	1880.
Sage, C. T.....	San Francisco, California.....	1870.
Sawyer, H. C.....	San Francisco, California.....	1881.
Schellhous, E. J.....	Huron County, Ohio.....	1875.
Schnabel, Martin.....	Newcastle.....	1873.
Scholl, Albert L., Ph.G.....	San Francisco, California.....	1884.
Scott, Arthur W.....	San Francisco, California.....	1879.
Seavey, L. T.....	Port Townsend, Oregon.....	1878.
Seawell, John L.....	Healdsburg, California.....	1870.
Seawell, Thos. H.....	Healdsburg, California.....	1876.
Sellon, Anna F.....	San Francisco, California.....	1881.
Senter, E. S.....	San José, California.....	1882.
Sheets, John H.....	Phoenix, Arizona Territory.....	1881.

Shelton, Thos. W.	Salem, Oregon	1867.
Sherman, Elenora S.	San Francisco, California	1884.
Shuey, Sarah I.	East Oakland, California	1878.
Sichel, Gust. W.	San Francisco, California	1876.
Simon, Jules A.	Paris, France	1875.
Smith, George S.	San Francisco, California	1879.
Smith, T. H.	Eureka, California	1876.
Smith, Wm. P.	Salem, Oregon	1875.
Sparks, Agnes	San Francisco, California	1879.
Stanton, James	San Francisco, California	1882.
Steely, John	Kirbyville, Oregon	1867.
Stevenson, J. R.	San Francisco, California	1877.
Stewart, J. M.	San Francisco, California	1882.
Stivers, C. A.	San Francisco, California	1864.
Summers, G. M.	Sonora, California	1876.
Summers, John F.	San Francisco, California	1878.
Sutro, Emma L.	San Francisco, California	1881.
Swann, Charles M.	San Francisco, California	1875.
Swisher, J. R.	Danville, Illinois	1877.
Tartar, A. P.	Tehama, California	1882.
Taylor, Edward R.	San Francisco, California	1865.
Toland, Charles A.	San Francisco, California	1869.
Turner, J. T.	Mariposa, California	1869.
Tuttle, H. P.	Castroville, California	1869.
Urban, Kurt.	San Francisco, California	1883.
Voigt, W. C.	San Francisco, California	1879.
Von Buelo, F.	San Francisco, California	1877.
Walz, G.	San Francisco, California	1868.
Wanzer, L. M. F.	San Francisco, California	1876.
Waters, John W.	Carson City, Nevada	1874.
Webber, J. C.	Sierra County, California	1869.
Weeks, F. L.	San Francisco, California	1864.
Wheaton, S. P.	Oakland, California	1877.
Whittell, A. P.	San Francisco, California	1873.
Weiss, E. M.	San Francisco, California	1877.
Welch, W. P.	San Francisco, California	1864.
Wickman, Wm. J.	San Francisco, California	1883.
Widney, J. P.	Santa Clara, California	1867.
Wilcox, Wilber J.	Oakland, California	1885.
Williamson, John M.	Vallejo, California	1885.
Williamson, W. T.	East Portland, Oregon	1877.
Winton, Henry N.	Haywards, California	1885.
Woods, W. E. Josephine	San Francisco, California	1885.
Wooster, David	San Francisco, California	1885.
Young, Junius D.	Stockton, California	1881.
Younger, Alex. J.	San Francisco, California	1869.
Younger, Edward A.	San Francisco, California	1879.
Total		225.



## ALUMNI ASSOCIATION.

---

A permanent organization of the Alumni Association of the Medical Department of the University of California has been effected, and its objects are the promotion of the prosperity of the University, the collection of anatomical, pathological, and other specimens of interest for the College Museum, the maintenance and cultivation of fraternal feeling among the alumni, and the advancement of the interests of Medical Education and the diffusion of sound medical and scientific knowledge.

Any graduate of the Medical Department of the University of California in good standing in the profession is eligible to membership upon the payment of the initiation fee of five dollars, which shall entitle the applicant to a *CERTIFICATE OF MEMBERSHIP*, signed by the President, Vice-President, and Secretary of the Association.

Any alumnus in good professional standing may receive a *CERTIFICATE OF LIFE MEMBERSHIP* upon the payment of twenty dollars. The professors and assistants of the Medical Department are eligible to honorary membership, for which they are to receive an appropriate certificate.

Meetings will be held quarterly, during first weeks in February, May, August, and November of each year. One or more papers will be read each meeting by members of the Association, on medical education, scientific discoveries, reports of interesting cases, etc., and then thrown open for general discussion, that the members may be mutually benefited by the observations of all present.

An annual banquet will be given by the Association to its members, in which the graduating class will be invited to participate.

Alumni in the various parts of the State or Country may become members as above stipulated by communication with the Secretary.

The officers elected for the year of 1885-6:

- A. P. Whittell, M.D., President.
- L. M. F. Wanzer, M.D., Vice-President.
- Winslow Anderson, M.D., Secretary.
- D. F. Callaghan, M.D., Treasurer.

*Executive Committee :*

- R. A. McLean, M.D., Chairman.
- Jerome A. Anderson, M.D.
- J. G. Day, M.D.

Alumni are cordially invited to join the Association.

Copies of the Constitution and By-Laws will be mailed to any address.

Members will please notify the Secretary of any change in their residence.

For further particulars address the Secretary of the Association—

WINSLOW ANDERSON, M.D.,  
No. 305 Kearny Street, corner of Bush,  
San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

## ACADEMIC SENATE.

NOTE.—Arranged Alphabetically in each division of Professors, Assistant Professors, Instructors, and Lecturers.

EDWARD S. HOLDEN, A.M., - - - - -  
*President of the University, and Director of the Lick Observatory.*

WILLIAM ASHBURNER, - - - - - 1014 Pine St., San Francisco.  
*Honorary Professor of Mining.*

WASHINGTON AYER, M.D., - - - - - 410 Kearny St., San Francisco.  
*Professor of Hygiene.*

HERMANN H. BEHR, M.D., - - - - - 509 Kearny St., San Francisco.  
*Professor of Botany in the College of Pharmacy.*

GEO. WOODBURY BUNNELL, A.M., - - - Cor. Telegraph and Caledonia  
Avenues, Oakland.  
*Professor of the Greek Language and Literature.*

SAMUEL B. CHRISTY, PH.B., - - - Piedmont, near Bancroft Way, Berkeley.  
*Professor of Mining and Metallurgy.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG., 218 Post St., San Francisco.  
*Professor of Obstetrics and Gynecology.*

ALBERT S. COOK, PH.D., - - - Cor. Dwight Way and Audubon St., Berkeley.  
*Professor of the English Language and Literature.*

GEORGE DAVIDSON, A.M., PH.D., - - - - - 923 Hyde St., San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

S. W. DENNIS, M.D., D.D.S., - - - - - 530 Sutter St., San Francisco.  
*Professor of Operative Dentistry and Dental Histology.*

STEPHEN J. FIELD, LL.D., - - - - - - - - - Washington, D. C.  
*Honorary Professor of Law.*

M. W. FISH, M.D., - - - - - - - - - East Oakland.  
*Professor of Physiology and Microscopy.*

C. L. GODDARD, A.M., D.D.S., - - - - - 131 Post St., San Francisco.  
*Professor of Mechanical Dentistry, and Dean of the Dental Faculty.*

FREDERICK GRAZER, PH.G., - - - - - 113 Fulton St., San Francisco.  
*Professor of Materia Medica in the College of Pharmacy.*

- S. CLINTON HASTINGS, LL.D., - - - 636 Clay St., San Francisco.  
*Professor of Comparative Jurisprudence.*
- FREDERICK G. HESSE, - - Cor. Alice and Eleventh Sts., Oakland.  
*Professor of Mechanical Engineering.*
- EUGENE W. HILGARD, PH.D., - Bancroft Way, nr. Audubon St., Berkeley.  
*Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*
- GEORGE H. HOWISON, A.M., LL.D., - - Ellsworth St., nr. Bancroft Way, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*
- J. A. HUTTON, 1st Lt. 8th Infantry, U. S. A., - - First Club House, Berkeley.  
*Professor of Military Science and Tactics.*
- F. B. KANE, M.D., M.R.C.S.I., - - - 46 O'Farrell St., San Francisco.  
*Professor of Clinical Medicine and Pathology.*
- MARTIN KELLOGG, A.M., - - - - - Bushnell St., Berkeley.  
*Professor of the Latin Language and Literature.*
- JOHN LECONTE, M.D., LL.D., - Cor. Dwight Way and Mark St., Berkeley.  
*Professor of Physics.*
- JOSEPH LECONTE, M.D., LL.D., - - Bancroft Way, nr. Piedmont Ave., Berkeley.  
*Professor of Geology and Natural History.*
- A. L. LENGFELD, M.D., - - Cor. Stockton and Geary Sts., San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*
- WILLIAM B. LEWITT, M.D., - - - 605 Laguna St., San Francisco.  
*Professor of Anatomy.*
- ROBERT A. McLEAN, M.D., - - - 603 Merchant St., San Francisco.  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*
- W. F. McNUTT, M.D., M.R.C.P., EDIN., ETC., 121 Montgomery St., San Francisco.  
*Professor of the Principles and Practice of Medicine.*
- BERNARD MOSES, PH.D., - - - - - Audubon St., Berkeley.  
*Professor of History and Political Economy.*
- H. J. PLOMTEAUX, D.D.S., - - - - 531 Sutter St., San Francisco.  
*Clinical Professor of Mechanical Dentistry.*
- ALBIN PUTZKER, - - - Cor. Humboldt Ave. and Parker St., Berkeley.  
*Professor of the German Language and Literature.*
- WILLARD B. RISING, PH.D., - Cor. Allston and Chapel Sts., Berkeley.  
*Professor of Chemistry.*

EDWARD W. RUNYON, PH.G., - - - 529 Market St., San Francisco.  
*Professor of the Theory and Practice of Pharmacy, and Dean of the Pharmaceutical Faculty.*

G. A. SHURTLEFF, M.D., - - - - - Napa.  
*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

FRANK SOULÉ, JR. (United States Military Academy), 940 Oak St., Oakland.  
*Professor of Civil Engineering and Astronomy.*

IRVING STRINGHAM, PH.D., - Cor. Piedmont and Bancroft Way, Berkeley.  
*Professor of Mathematics.*

MAURICE J. SULLIVAN, D.D.S., - - - 30 Post St., San Francisco.  
*Clinical Professor of Operative Dentistry.*

BENJ. R. SWAN, M.D., - - - - 310 Stockton St., San Francisco.  
*Professor of Diseases of Children.*

W. E. TAYLOR, M.D., - - - - 215 Geary St., San Francisco.  
*Professor of the Principles and Practice of Surgery.*

F. H. TERRILL, A.M., M.D., N. E. cor. Stockton and Sutter Sts., San Francisco.  
*Professor of Therapeutics.*

WILLIAM T. WENZELL, M.D., - - - 19 Drumm St., San Francisco.  
*Professor of Chemistry in the College of Pharmacy.*

A. M. WILDER, M.D., - - - - 215 Geary St., San Francisco.  
*Professor of Ophthalmology and Otology.*

JOSEPH W. WINANS, A.M., - - - 604 Merchant St., San Francisco.  
*Dean of the Law Faculty.*

\_\_\_\_\_, - - - - -  
*Agassiz Professor of Oriental Languages and Literature.*

\_\_\_\_\_, - - - - -  
*Professor of Municipal Law.*

\_\_\_\_\_, - - - - -  
*Professor of Mental Diseases and Medical Jurisprudence.*

\_\_\_\_\_, - - - - -  
*Professor of Dental Pathology and Therapeutics.*

JOHN B. CLARKE, PH.B., - - - 1736 Thirteenth St., Oakland.  
*Assistant Professor of Mathematics.*

GEORGE C. EDWARDS, PH.B., - - - 1568 Webster St., Oakland.  
*Assistant Professor of Mathematics.*

C. B. BRADLEY, A.B., - - - - 668 Eighteenth St., Oakland.  
*Instructor in English.*

ROSS E. BROWNE,\* - - - - 518 Eighteenth St., Oakland.  
*Instructor in Mechanical and other Branches of Instrumental Drawing.*

WM. W. DEAMER, A.B., - - Cor. Home and University Avs., Berkeley.  
*Instructor in Latin, and Recorder.*

EDWARD LEE GREENE, - - Ellsworth St., near Bancroft Way, Berkeley.  
*Instructor in Botany.*

A. WENDELL JACKSON, JR., PH.B., - - Fourth Club House, Berkeley.  
*Instructor in Mineralogy, Petrography, and Economic Geology.*

HENRY B. JONES, - - - - - North Temescal.  
*Instructor in French.*

WM. CAREY JONES, A.M., - - Bancroft Way, near Dana St., Berkeley.  
*Instructor in United States History and Constitutional Law.*

HERMANN KOWER, C.E., - - - 616 Fourteenth St., Oakland.  
*Instructor in Instrumental Drawing.†*

EDMOND C. O'NEILL, PH.B., - - - 1403 Chestnut St., Oakland.  
*Instructor in Chemistry.*

WILLIAM G. RAYMOND, C.E., - - Parker St., near Fulton, Berkeley.  
*Instructor in Civil Engineering.*

F. SLATE, JR., - - - Audubon St., near Bancroft Way, Berkeley.  
*Superintendent of Physical Laboratory, and Instructor in Physics and Mechanics.*

---

E. J. WICKSON, A.M., - - - Atherton St., near Bancroft Way, Berkeley.  
*Lecturer on Practical Agriculture.*

---

WILLIAM D. ARMES, PH.B., - - Cor. Thirteenth and Brush Sts., Oakland.  
*Assistant in English.*

JAMES P. H. DUNN, B.S., - - - - - Claremont.  
*Assistant in Chemistry.*

---

\* Absent on leave.

† Serving during the absence of Mr. Browne.



# UNIVERSITY OF CALIFORNIA.

## DENTAL DEPARTMENT.

STOCKTON STREET, BETWEEN CHESTNUT AND FRANCISCO.

### FACULTY.

EDWARD S. HOLDEN, A.M., President of the University and ex officio President of the Faculty.

JOSEPH LeCONTE, M.D., LL.D., Honorary Professor of Biology.

S. W. DENNIS, M.D., D.D.S., Professor of the Principles and Practice of Operative Dentistry and Dental Histology.

C. L. GODDARD, A.M., D.D.S., Professor of Mechanical Dentistry.

M. W. FISH, M.D., Professor of Physiology.

A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.

W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.

WILLIAM B. LEWITT, M.D., Professor of Anatomy.

MAURICE J. SULLIVAN, D.D.S., Clinical Professor of Operative Dentistry.

H. J. PLOMTEAUX, D.D.S., Clinical Professor of Mechanical Dentistry.

———, Professor of Pathology and Therapeutics.

### DEMONSTRATORS.

J. SCHNEIDER, D.D.S., Demonstrator of Operative Dentistry.

CHARLES BOXTON, D.D.S., MILTON GABBS, D.D.S., Demonstrators of Mechanical Dentistry.

JOHN G. DAY, M.D., Demonstrator of Anatomy.

ARNOLD A. D'ANCONA, A.B., M.D., Assistant to the Chair of Physiology.

WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.

### \*CLINICAL INSTRUCTORS.

J. L. ASAY, M.D.

C. F. W. BOEDECKER, M.D., D.D.S.

H. C. DAVIS, L.D.S.

L. L. DUNBAR, D.D.S.

B. W. HAINES, M.D., D.D.S.

J. H. HATCH, D.D.S.

R. W. HENDERSON,

W. B. KINGSBURY.

A. F. McLAIN, M.D., D.D.S.

THOS. MORFFEW, D.D.S.

W. E. PRICE, D.D.S.

JOHN RABE, D.D.S.

MAX SICHEL.

J. L. WILLIAMS, D.D.S.

C. L. GODDARD, Dean.

\* Alphabetically arranged.

# UNIVERSITY OF CALIFORNIA.

## PHARMACEUTICAL DEPARTMENT.

113 FULTON STREET.

### FACULTY.

EDWARD S. HOLDEN, A.M., President of the University of California and  
ex officio President of the Faculty.

WILLIAM T. WENZELL, M.D., PH.G., Professor of Chemistry.

EDWARD W. RUNYON, PH.G., Professor of Theory and Practice of Pharmacy.

HERMANN BEHR, M.D., Professor of Botany.

FREDERICK GRAZER, PH.G., Professor of Materia Medica.

### QUIZ MASTERS.

Materia Medica ..... J. J. B. ARGENTI, PH.G.

Botany ..... J. J. B. ARGENTI, PH.G.

Instructor in Latin ..... CHARLES GREEN, A.B.

For Annual Announcement address—

EDWARD W. RUNYON, PH.G., Dean,  
529 Market Street, San Francisco.

## UNIVERSITY OF CALIFORNIA.

---

### THE ACADEMIC AND SCIENTIFIC DEPARTMENTS.

- |  |  |
|--|--|
| 1. COLLEGE OF LETTERS:<br>(a) CLASSICAL COURSE;<br>(b) LITERARY COURSE;<br>(c) COURSE IN LETTERS AND<br>POLITICAL SCIENCE. | 3. COLLEGE OF MECHANICS.<br>4. COLLEGE OF MINING.<br>5. COLLEGE OF CIVIL ENGINEER-<br>ING.<br>6. COLLEGE OF CHEMISTRY. |
|--|--|
2. COLLEGE OF AGRICULTURE.
- 

### ACADEMIC STAFF.

EDWARD S. HOLDEN, A.M., President of the University.  
 WILLIAM ASHBURNER, Honorary Professor of Mining.  
 GEORGE WOODBURY BUNNELL, A.M., Professor of the Greek Language  
 and Literature.  
 SAMUEL B. CHRISTY, Ph.B., Professor of Mining and Metallurgy.  
 ALBERT S. COOK, Ph.D., Professor of the English Language and Literature.  
 GEORGE DAVIDSON, A.M., Honorary Professor of Geodesy and Astronomy.  
 STEPHEN J. FIELD, LL.D., Honorary Professor of Law.  
 FREDERICK G. HESSE, Professor of Mechanical Engineering.  
 EUGENE W. HILGARD, Ph.D., Professor of Agriculture, Agricultural Chem-  
 istry, General Economic Botany.  
 GEORGE H. HOWISON, A.M., LL.D., Mills Professor of Intellectual and Moral  
 Philosophy and Civil Polity.  
 JAMES A. HUTTON (1st Lieut., Eighth Infantry, U. S. A.), Professor of  
 Military Science and Tactics.  
 MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.  
 JOHN LeCONTE, M.D., LL.D., Professor of Physics.  
 JOSEPH LeCONTE, M.D., LL.D., Professor of Geology and Natural History.  
 BERNARD MOSES, Ph.D., Professor of History and Political Economy.  
 ALBIN PUTZKER, Professor of the German Language and Literature.  
 WILLARD B. RISING, Ph.D., Professor of Chemistry.  
 FRANK SOULÉ, JR. (U. S. Military Academy), Professor of Civil Engineering  
 and Astronomy.  
 IRVING STRINGHAM, Ph.D., Professor of Mathematics.  
 JOHN B. CLARKE, Ph.B., Assistant Professor of Mathematics.  
 GEORGE C. EDWARDS, Ph.B., Assistant Professor of Mathematics.  
 E. J. WICKSON, A.M., Lecturer on Practical Agriculture.  
 C. B. BRADLEY, A.B., Instructor in English.  
 ROSS E. BROWNE, Instructor in Mechanical and other branches of Instru-  
 mental Drawing.

- WILLIAM W. DEAMER, A.B., Recorder, and Instructor in Latin.  
 EDWARD LEE GREENE, Instructor in Botany.  
 A. WENDELL JACKSON, JR., PH.B., Instructor in Mineralogy, Petrography,  
 and Economic Geology.  
 HENRY B. JONES, Instructor in French.  
 WM. CAREY JONES, A.M., Instructor in United States History and Constitutional Law.  
 HERMANN KOWER, C.E., Substitute Instructor in Drawing.  
 EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.  
 WILLIAM G. RAYMOND, C.E., Instructor in Civil Engineering.  
 F. SLATE, JR., Superintendent of the Physical Laboratory, and Instructor in  
 Physics and Mechanics.  
 J. J. RIVERS, Curator of the University Museum.  
 JOSEPH C. ROWELL, A.B., Librarian.  
 WILLIAM D. ARMES, PH.B., Assistant in English.  
 JAMES P. H. DUNN, B.S., Assistant in Chemistry.  
 MYER E. JAFFA, PH.B., Assistant in the Viticultural Laboratory.  
 FREDERICK W. MORSE, PH.B., Assistant in the Agricultural Laboratory.  
 ADOLPH SOMMER, PH.G., Assistant in Chemistry.  
 GEORGE ELDEN COLBY, PH.B., Second Assistant in the Viticultural Laboratory.  
 WALDEMAR G. KLEE, Gardener to the College of Agriculture.  
 JOSEPH A. SLADKE, Superintendent of the Machine Shop.

## COURSES OF INSTRUCTION.

---

There are established, in the undergraduate department of the University, eight regular courses of study, leading directly, under conditions specified in the Joint Regulations of the Faculties of Letters and of Science, to corresponding degrees, namely:

In charge of the Faculty of the College of Letters:

- I. The **Classical Course**, leading to the degree of A.B.;
- II. The **Literary Course**, leading to the degree of B.L.;
- III. The **Course in Letters and Political Science**, leading to the degree of Ph.B.

In charge, severally, of the respective Faculties of the five Colleges of Science:

- IV. The **Course in Agriculture**;
- V. The **Course in Mechanics**;
- VI. The **Course in Mining**;
- VII. The **Course in Civil Engineering**;
- VIII. The **Course in Chemistry**;

Each of which leads regularly to the degree of B.S.

To each of these Regular Courses there pertains an established curriculum of studies, prescribed or elective, arranged in the order of four successive years, as exhibited in the annual Register of the University. The completion of one of these courses usually requires four years.

There are permitted, in addition, **Courses at Large** and **Partial Courses** not leading directly to any degree, but through each of which, on the conditions pertaining to the status of students, as described in the Joint Regulations, some one of the above named degrees is possibly attainable.

---

## GRADUATE COURSES.

To Graduates of the University of California, or of other institutions of equal grade, who may wish to pursue advanced work, general or special, is extended every facility that the libraries, laboratories, and collections of the University afford, and, so far as is possible, courses of study will be framed to meet the requirements of such students. These courses may be so constituted as to lead, respectively, to the degrees: Master of Arts, Master of Letters, Master of Science, Doctor of Philosophy; or to the professional degrees: Mechanical Engineer, Mining Engineer, Metallurgical Engineer, Civil Engineer.



## REQUIREMENTS FOR ADMISSION.

---

Applicants for admission must be at least sixteen years of age, and must pass a satisfactory examination in such of the following subjects as are designated on page 30 for the course and status sought:

1. **ENGLISH.** A short composition, correct in spelling, punctuation, paragraphing, and grammar, upon a subject announced at the time of the examination, and taken, until further notice, from the following works: Tom Brown's School Days at Rugby; Scott's Lady of the Lake; Irving's Alhambra; Thackeray's Newcomes; Shakespeare's Merchant of Venice, and Julius Cæsar (Rolfe's or the Clarendon Press edition).

2. **ARITHMETIC.** Including the metric system.

3. **ALGEBRA.** (a) To Quadratic Equations. (b) Quadratic Equations, both single and simultaneous, their solution and their theory.

4. **PLANE GEOMETRY.** (a) Plane geometry except the metrical properties of polygons and the circle. (b) The general properties of regular polygons, and the measurement of the circle.

5. **HISTORY AND GEOGRAPHY.** History of the United States, and the general facts of Physical and Political Geography.

6. **LATIN.** Cæsar, Gallic War, Books I.-IV. (or Civil War, Books I.-II); Cicero, the Four Catilinarian Orations, translation into Latin of simple English sentences.

7. **LATIN.** Cicero, the Orations *Pro Archia Poeta* and *Pro Lege Manilia*; Vergil, Aeneid, Books I.-VI.; sight translation of easy Latin prose; translation into Latin of brief connected narratives.

8. **GREEK.** Xenophon, Anabasis, Book I.; White's First Lessons in Greek, Lessons I.-LX.; translation into Greek of simple English sentences.

9. **GREEK.** Xenophon, Anabasis, Books II.-IV., or Goodwin's Greek Reader, pp. 37-111; Homer, Iliad, Books I.-II., omitting the catalogue of ships; Jones' Greek Prose Composition, or its equivalent; sight translation of easy Greek prose.

10. **ANCIENT HISTORY AND GEOGRAPHY.** (a) Greek History to the death of Alexander, with the connected Geography.

(b) Roman History to the death of Commodus, with the connected Geography.

11. **PHYSICS.** The elements of the subject taught experimentally. (Until 1887 any one of the topics included under Subject 12 following will be accepted as an equivalent for the Physics.)

12. **ANY ONE OF THE FOLLOWING:**

(a) **CHEMISTRY.** The elements of Chemistry.

(b) **BOTANY.** The elements of Botany.

(c) **PHYSIOLOGY.** The elements of Physiology.

(d) **MINERALOGY.** The elements of Mineralogy.

(e) **PLANE TRIGONOMETRY.** The development of the general formulæ, solution of plane triangles, and practice in the use of logarithmic tables.

(f) **FREE-HAND DRAWING.** Line drawing from models, copying of patterns, etc.

13. **HISTORY.** History of England.

14. **ENGLISH.** The examination in this subject will presuppose thorough study of the following works: Scott's *Lay of the Last Minstrel*; Whittier's *Snow-Bound*; Longfellow's *Evangeline*; Lowell's *Sir Launfal*; Sir Roger de Coverley; Burke's Works, edited by Payne, Vol. 1; and Hales' *Longer English Poems*, omitting Wordsworth's *Laodamia* and Shelley's *Adonais*.

### GROUPS OF SUBJECTS FOR THE SEVERAL COURSES.

Of the foregoing Subjects, one of the following Four Groups, or parts of them, must be taken, according to the Course and Status applied for:—

I. For the **Classical Course**, Subjects 1, 2, 3*a*, 4*a*, 5, 6, 7, 8, 9, and 10.

II. For the **Literary Course**;—In 1886, Subjects 1, 2, 3*a*, 4*a*, 5, 6, 7, 10, and any two of the Subjects in 11 and 12.

In 1887 and afterwards, Subjects 1, 2, 3*a*, 4*a*, 5, 6, 7, 10, 13, and 14.

III. For the **Course in Letters and Political Science**;—In 1886, Subjects 1, 2, 3*a*, 4*a*, 5, 6, 7, 8, 9, and 10; or 1, 2, 3*a*, 4*a*, 5, 6, 7, 10, and any two of the Subjects in 11 and 12; or 1, 2, 3 (*a* and *b*), 4 (*a* and *b*), 5, 13, 14, and any two Subjects in 11 and 12.

In 1887 and afterwards, Subjects 1, 2, 3*a*, 4*a*, 5; and either 6, 7, 8, 9, and 10; or 6, 7, 10, 13, and 14; or 3*b*, 4*b*, 11, 12, and either 6 or 14.

IV. For any of the five **Courses in Science**;—In 1886, Subjects 1, 2, 3 (*a* and *b*), 4 (*a* and *b*), 5, 13, 14, and any two of the Subjects in 11 and 12.

In 1887 and afterwards, Subjects 1, 2, 3 (*a* and *b*), 4 (*a* and *b*), 5, 11, 12, and either 6 or 14.

Applicants, if they so desire, may offer the requirements of 1887 in 1885 and 1886.

For a **Course at Large**, either of the Four Groups required for admission to a Regular Course, as the applicant may elect. And in case the applicant proposes, if admitted, to take any study out of the prescribed order, all the examinations required for its pursuit by a Regular Student must be passed before admission.

For a **Special Course**, such of the General List of Subjects as, in the judgment of the professors or instructors in charge of the special line of studies intended, are requisite for its proper pursuit. The list thus approved must be deposited with the Recorder before the examination. No applicant who has failed in the entrance examination for a Regular Course or a Course at Large, will be allowed to take a Special Course.

For a **Limited Course**, Subjects 1, 2, 3a, 4a, and 5; and, in addition, any in the General List that are requisite to the studies sought by the applicant. If advanced studies are sought, the applicant must pass all the examinations conditional to them that are required of Regular Students. The exact list of requisite subjects must be ascertained through the Recorder, and deposited with him before the examination.

---

#### TIMES AND PLACES OF EXAMINATION.

At the end of June there will be held simultaneously at Berkeley, Los Angeles, and Marysville the First Entrance Examination, continuing through the Thursday, Friday, and Saturday following the annual Commencement in the College of Letters and the College of Science.

At the beginning of the first term in September the Second Entrance Examination will be held at Berkeley only, continuing through Thursday, Friday, and Saturday.

No applicant for admission will be examined at any other time, except for reasons of the most exceptional urgency.

---

#### PRELIMINARY EXAMINATIONS.

Any applicant for admission to a Regular Course or to a Course at Large may, at option, pass the entire entrance examination at one time or divide it between two years, passing part of it as a preliminary examination in one year, and completing the remainder the next year. But neither the preliminary examination nor the remainder in completion may be divided between the June and September examinations of the same year.

Applicants will not be admitted to the preliminary examination without certificates from their teachers that they are prepared in the subjects they offer. These certificates must be addressed to the Recorder of the Faculties, Berkeley, and must be in his hands previous to the examination.

Certificates of partial admission will only be issued for subjects passed without conditions, nor will any certificate be issued to an applicant who does not pass in at least five of the subjects offered. These subjects must be confined to Subjects 1, 2, 3a, 4a, 5, 6, 8, 10 (a or b), and 11 of the General List (see page 8), which must be grouped for the several Courses as follows:

- I. For the **Classical Course**, Subjects 1, 2, 3a, 4a, 5, 6, 8, and 10 (a or b).
- II. For the **Literary Course**, Subjects 1, 2, 3a, 4a, 5, 6, 10 (a or b), and 11.
- III. For the **Course in Letters and Political Science**, Subjects 1, 2, 3a, 4a, 5; and either 6, 8, and 10 (a or b); or 6, 10 (a or b), and 11; or 11 and 6.
- IV. For any of the five **Courses in Science**, Subjects 1, 2, 3a, 4a, 5, 11, and 6.

For a **Course at Large**, either of the preceding groups. But for no Course will an examination be granted on part of a Subject.

## ADMISSION FROM APPROVED PUBLIC SCHOOLS.

By a regulation adopted by the Board of Regents, March 4, 1884, it is established, that—

“Upon the request of the Principal of any public school in California whose course of study embraces, in kind and extent, the subjects required for admission to any College of the University, a committee of the Faculty will visit such school, and report upon the quality of the instruction there given. If the report of such committee be favorable, a graduate of the school, upon the personal recommendation of the Principal, accompanied by his certificate that the graduate has satisfactorily completed the studies of the course preparatory to the College he wishes to enter, may, at the discretion of the Faculty, be admitted without examination.”

---

*More detailed information concerning the foregoing matters, and concerning the Academic and Scientific Departments in general, is contained in the Admission Circular (Bulletin No. 6), and the University Register, either of which will be sent to any address, on application to the Recorder, W. W. Deamer, Berkeley, California.*

THE LIBRARY OF THE  
FEB 26 1931  
UNIVERSITY OF ILLINOIS.







C 1242m  
1886/87

# ANNOUNCEMENT

OF THE

TWENTY-FOURTH ANNUAL COURSE OF LECTURES

OF THE

# MEDICAL DEPARTMENT

UNIVERSITY OF CALIFORNIA.

THE LIBRARY OF THE

FEB 26 1931

UNIVERSITY OF ILLINOIS

CATALOGUE OF STUDENTS AND GRADUATES.

1887.

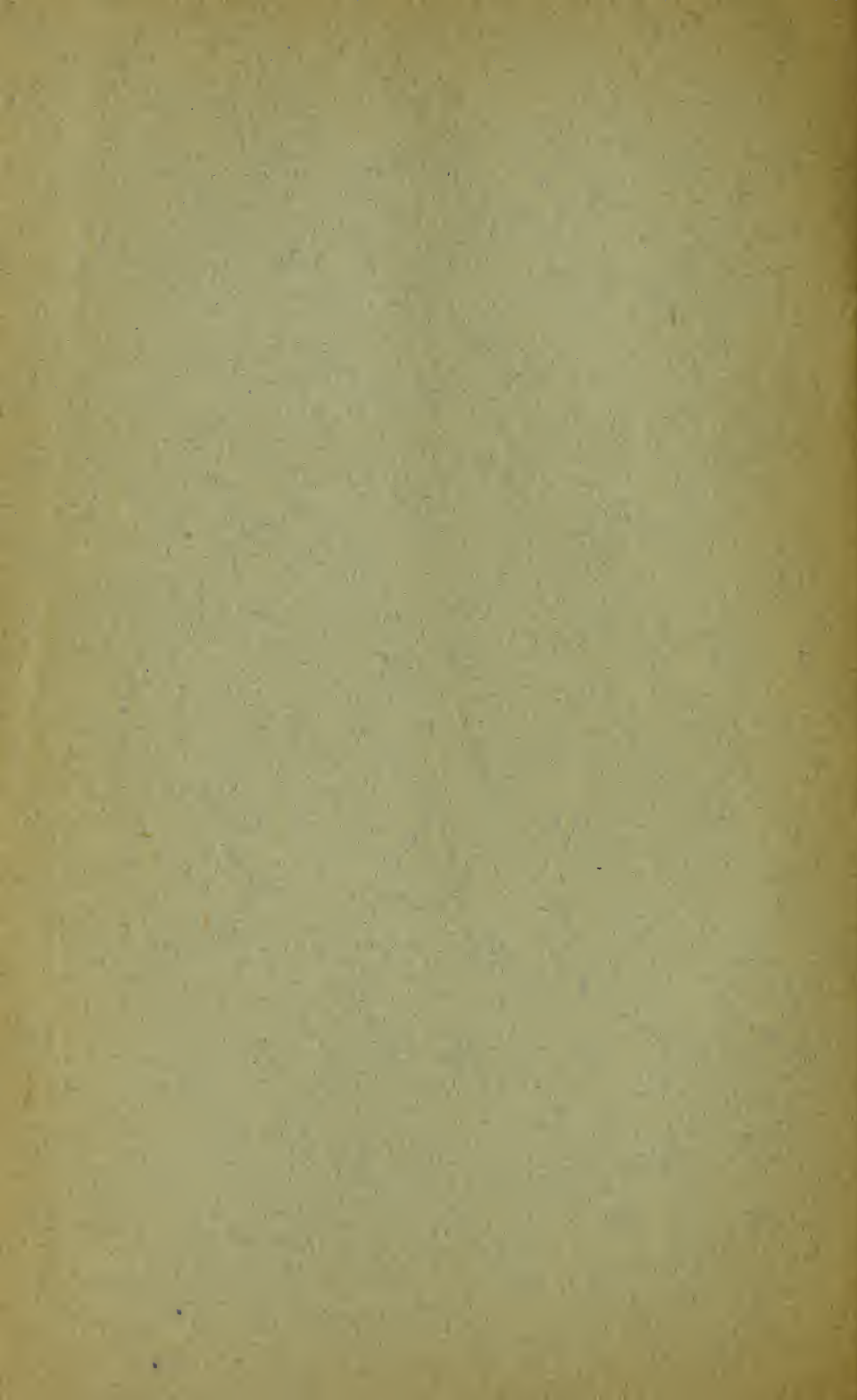
Alumni of the Medical Department of the University,  
and others desiring to receive the ANNOUNCEMENT regularly, are requested  
to send their names and addresses to the Dean.

SAN FRANCISCO:

A. J. LEARY, PRINTER AND PUBLISHER,

1887.





ANNOUNCEMENT

OF THE

TWENTY-FOURTH ANNUAL COURSE OF LECTURES

OF THE

MEDICAL DEPARTMENT

UNIVERSITY OF CALIFORNIA.

WITH

CATALOGUE OF STUDENTS AND GRADUATES.

1887.

---

Alumni of the Medical Department of the University,  
and others desiring to receive the ANNOUNCEMENT regularly, are requested  
to send their names and addresses to the Dean.



A. J. LEARY, PRINTER AND PUBLISHER,  
1887.

# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX OFFICIO REGENTS.

HIS EXCELLENCY WASHINGTON BARTLETT, - - - SACRAMENTO.  
*Governor, ex officio President of the Board.*

HIS HONOR R. W. WATERMAN, - - - - - SACRAMENTO.  
*Lieutenant-Governor.*

HON. W. H. JORDAN, - - - - - ALAMEDA.  
*Speaker of the Assembly.*

HON. IRA G. HOITT, - - - - - SACRAMENTO.  
*State Superintendent of Public Instruction.*

HON. JESSE D. CARR, - - - - - SALINAS.  
*President of the State Agricultural Society.*

P. B. CORNWALL, ESQ., NORTHWEST COR. SPEAR AND FOLSOM STS., SAN  
 FRANCISCO.  
*President of the Mechanics' Institute.*

EDWARD S. HOLDEN, LL.D., - 120 SUTTER ST., SAN FRANCISCO.  
*President of the University.*

### \* APPOINTED REGENTS.

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.,	- 1609 Larkin St., San Francisco.	- 1894
HON. JOHN S. HAGER, LL.D.,	- - Palace Hotel, San Francisco,	- - 1894
HON. J. WEST MARTIN,	- - - Union Bank, Oakland,	- - - 1898
HON. JOHN F. SWIFT,	- - - 32 O'Farrell St., San Francisco,	- 1888
A. S. HALLIDIE, ESQ.,	- - - 329 Market St., San Francisco.	- 1892
HON. JOSEPH W. WINANS, A.M.,	- 604 Merchant St., San Francisco,	- 1890
JOHN. L. BEARD, A.M.,	- - - Centreville, - - - - -	- 1892
HON. A. L. RHODES,	- - - 430 California St., San Francisco,	- 1888
PROF. WILLIAM ASHBURNER,	- - 1014 Pine St., San Francisco,	- - 1896
HON. T. GUY PHELPS,	- - - Belmont, - - - - -	- 1896
GEORGE T. MARVE, JR., LL.B.,	- 234 Montgomery St., San Francisco,	1898
ARTHUR RODGERS, A.B., Ph.B.,	- 302 Montgomery St., San Francisco,	1890
GEORGE J. AINSWORTH, Ph.B.,	- - North Temescal, - - - - -	1900
D. M. DELMAS, A.M.,	- - - 327 Pine St., San Francisco,	- - 1900
HON. WILLIAM T. WALLACE,	- - 799 Van Ness Ave., San Francisco,	1902
I. W. HELLMAN, ESQ.,	- - - Los Angeles, - - - - -	1902

J. H. C. BONTÉ, A. M., D. D., Secretary, Berkeley.

Regular meetings of the Board of Regents are held quarterly, viz.: on the first Tuesday in March, September and December, and on the last Tuesday in May.

\* In order of appointment.



# UNIVERSITY OF CALIFORNIA.

---

## MEDICAL DEPARTMENT.

### FACULTY.

- EDWARD S. HOLDEN, LL.D., President of the University.  
G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.  
R. BEVERLY COLE, A.M., M.D., M.R.C.S., Eng. Professor of Obstetrics and Gynecology.  
M. W. FISH, M.D., Professor of Physiology and Microscopy.  
W. F. McNUTT, M.D., M.R.C.P., Edin., etc., Professor of Principles and Practice of Medicine.  
ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.  
W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.  
F. B. KANE, M.D., F.R.C.S.I., Professor of Clinical Medicine and Pathology.  
A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.  
WM. B. LEWITT, M.D., Professor of Anatomy.  
BENJ. R. SWAN, M.D., Professor of Diseases of Children.  
WM. H. MAYS, M.D., Professor of Mental Diseases and Medical Jurisprudence.  
WASHINGTON AYER, M.D., Professor of Hygiene.  
GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.  
WM. WATT KERR, M.D., Professor of Therapeutics.
- 

- JOHN G. DAY, M.D., Demonstrator of Anatomy.  
L. A. SABEY, M.D., Curator.
- 

- ARNOLD A. D'ANCONA, A.B., M.D., Assistant to the Chair of Physiology.  
WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.  
HENRY W. DODGE, M.D., Assistant to the Chair of Clinical Medicine and Pathology.  
JULES SIMON, M.D., Assistant to the Chair of Mental Diseases and Medical Jurisprudence.
- 

### College Dispensary Staff.

- C. G. KENYON, M.D., W. B. LEWITT, M.D., Surgery.  
JULES SIMON, M.D., Nervous Diseases.  
LUKE ROBINSON, M.D., M.R.C.P., Eng., H.W. DODGE, M.D., Medicine.

ROBERT A. McLEAN, M.D., Dean,  
603 Merchant Street, corner of Montgomery,  
San Francisco, California.

## CALENDAR.

---

THE PRELIMINARY TERM of 1887 will open on Tuesday, March 1st, and close on Saturday, May 14th.

THE REGULAR TERM will open on Wednesday, June 1st, and close on Saturday, October 29th.

THE MATRICULATION EXAMINATION will be held at the College building on January 31st, and May 30th and 31st.

THE DIDACTIC LECTURES are delivered at the College building, (Toland Hall), Stockton street, below Chestnut, San Francisco.

THE CLINICAL LECTURES are delivered at the City and County Hospital, Twenty-second street and Potrero avenue.

THE ANNUAL COMMENCEMENT for conferring the degree of Doctor of Medicine, will be held early in November, in San Francisco.



## TWENTY-FOURTH ANNUAL COURSE OF INSTRUCTION.

### SESSION OF 1887.

The Medical Department of the University of California, was organized in 1872, as an integral part of the State's Educational center. It was among the first to adopt the higher standard of Medical Education ; having, as early as 1875, instituted a three years course and graded studies, and in 1885 an examination for admission to the College.

The changes introduced into the curriculum of this school and now in force, may be summarized as follows :

1. *Increase of the time of study to three years.* Three regular courses of lectures of five months each, attended through three several years, are required before the student can present himself for graduation. Students are also required to attend the clinics regularly throughout the term, and senior students to attend the preliminary term.

2. *Yearly examinations.* At the beginning of each session, examinations are had to determine the progress of the student during the year past ; his advancement depending on the result of such examinations. These examinations are *not final*, and the examination for graduation, at the close of the third year, includes the whole domain of medical study.

3. *Graded studies.* By this arrangement the student is thoroughly drilled in the elementary subjects before proceeding higher. He is, however, expected to attend all the lectures, giving most of his hours of study to the subjects allotted to his own year.

The following are the subjects apportioned to each year's studies :

*First Year.* Anatomy, Physiology, Chemistry, and Materia Medica. Chemical and Physiological Laboratory work. Dissections. (Dispensary Clinics optional.)

*Second Year.* Anatomy, Physiology, Medical Chemistry, Principles and Practice of Medicine, Principles and Practice of Surgery, Therapeutics (Medical and Surgical), Obstetrics and Pathology. Clinical Medicine, Clinical and Operative Surgery at Hospital. Dispensary Clinics, Dissections.

*Third Year.* Principles and Practice of Medicine, Principles and Practice of Surgery, including Operative and Minor Surgery with Bandaging, Therapeutics (Medical and Surgical), Obstetrics and Gynecology, with special clinics, Ophthalmology, Otology, etc., with special clinics, Diseases of Children, etc., with special clinics. Hygiene, Medical Jurisprudence and Mental Diseases, with special clinics. Regional Anatomy, Physiology of the Special Senses, Physiological Chemistry, and Pharmacology. Clinical Medicine, Clinical Surgery, and Medical and Surgical Pathology, at Hospital. Dispensary Clinics.

Graduates of this College, and those holding certificates of attendance upon lectures, are credited for the full time of their medical studies by the Royal College of Surgeons of England, Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow.

## LOCATION.

While the several other Colleges of the State University are clustered at Berkeley, its Medical Department is, for obvious reasons, situated in San Francisco. The Medical College building, known as "Toland Hall," in honor of its illustrious founder, is one of the most complete and stately in the country. It is located near North Beach, overlooking the Golden Gate, a locality favoring the health and industrious habits of the students.

The Lecture Hall of the College is capable of seating five hundred persons; The Clinical Amphitheater is about equally as capacious; the Museum contains an extensive collection of specimens and preparations; the Dissecting Room is fitted up with all the modern improvements; the Laboratory is replete with all chemicals and apparatus necessary for practical teaching. A suite of apartments in the building is set apart for the Dispensary Clinics.

The College stands near the terminus of the Omnibus line of street cars, and the terminus of the North Beach and Mission line, is distant one block further.

---

## THE COLLEGIATE YEAR.

Contrary to the custom of Eastern Medical Colleges, the lectures in this school are delivered during the Spring and Summer months. The peculiar climate of San Francisco renders Spring and Summer far the preferable season for prosecuting medical studies; hence, the regular session will be held from March to November. During this period, and indeed largely throughout the other months of the year also, cool trade-winds blow across the city daily, moderating the temperature, and particularly favoring the study of practical anatomy and necroscopy. The student in this city enjoys rare natural advantages for the healthful pursuit of his labors, such a contingency as his detention from lectures or clinics by stress of weather being absolutely unknown.

The College year is divided into two terms: The Preliminary or Spring Term, and the Regular or Summer Term.

THE PRELIMINARY TERM commences March 1st, and ends May 14th. During this term, subjects are dwelt upon that do not receive their full meed of attention during the Regular Term. Clinics proceed at the Hospital and College as during the Regular Term. The Dissecting Room is open for practical work. All students are expected to attend this course, although such attendance is not compulsory, except to members of the senior class.

THE REGULAR TERM for 1887 begins Wednesday, June 1st, and terminates Saturday, October 29th. During this term, all the branches of medicine and surgery are taught, didactically and clinically. Regular clinics are held three days each week at City and County Hospital, where the Professors of the clinical chairs have charge of wards, and possess every advantage for the instruction of students; clinics are also held at the College Dispensary. Lectures are given daily by the Professors and evening recitations are held three times a week.

## METHODS OF INSTRUCTION.

---

The course of studies pursued at this school comprises Clinical, Didactic, and Laboratory teaching. Special prominence is given to the former, although it is endeavored that the three methods shall be so blended as to form one harmonious whole.

---

### CLINICAL TEACHING.

*In Clinical Teaching*, the plan pursued by the several Clinical Professors, has for its aim the actual confronting of the student with the phenomena of disease, that the senses of sight, hearing and touch may be trained to aid in forming a correct diagnosis.

The facilities for clinical studies open to the students of the University have been largely increased. Full access is given to the City and County Hospital, a complete and modern structure containing five hundred beds, and presenting for observation, perhaps, every known form of disease, including those peculiar to tropical and South America. The staff of the Hospital is largely drawn from the Faculty of the University, giving them unusual advantages for developing clinical material. The Professor of Clinical Surgery has charge of three surgical wards (thirty-two beds in each,) the Professor of Clinical Medicine two wards, the Professor of Obstetrics and Gynecology, and the Professor of Ophthalmology, one ward each. Autopsies are conducted three times a week in the Mortuary by the Pathologist. A large operating theatre has been erected, where the major and minor operations of surgery are performed in view of the class. Operating days are Tuesday and Saturday. The Hospital is situated at the junction of Twenty-second street with Potrero Avenue, and is accessible from the North Beach and Mission cars, the Omnibus and the Mission street lines.

### HOSPITAL CLINICS.

**Clinical Surgery.**—Professor McLean delivers clinical lectures on Practical and Operative Surgery at the City and County Hospital, on Tuesdays, Thursdays and Saturdays, throughout the session. Especial attention is given, in a ward devoted to the purpose, to the conduct of disorders of the genito-urinary organs and venereal diseases. A course on Minor Surgery is also given. Instruction in this branch includes the application of bandages and the various dressings used in treating wounds, fractures, dislocations, etc.

**Clinical Medicine,**—Professor F. B. Kane delivers bedside lectures at the same Hospital each Tuesday, Thursday and Saturday. His method of education is at once attractive and thorough, consisting of questions and answers on each patient examined, discussions on the plans of treatment proposed, and the examination of new cases by each senior student in rotation, in presence of the class.

**Gynecology and Practical Midwifery.**—Professor R. Beverly Cole holds a Thursday Clinic, including a course of instruction in Operative Gynecology, the use of instruments, appliances, etc. He will also devote a portion of his lectures to Clinical Midwifery, taking, as illustration, such cases of interest as may occur in the Lying-in ward from time to time. The senior students



will each in rotation, have opportunities for the study of Practical Obstetrics at the bedside.

**Ophthalmology and Otology.**—Professor Powers will deliver one didactic lecture a week during the course, covering the subjects of Larynx, Pharynx, Naso-Pharynx and Nasal Cavities, Eye and Ear. These lectures will be illustrated by models, charts and blackboard drawings. He will also conduct two clinics a week at the City and County Hospital, where in addition to operative and severe cases, he has a large out-patient clinic, including many children, with ample illustrations of cases as they appear in daily practice. At these clinics the third year students are required in turn, to keep the record of the cases, with a view to cultivating a habit of case writing. Once in two weeks Professor Powers has an evening "Quiz" for the third year students, which is conducted in turn by the students themselves, under the personal supervision of the Professor.

#### COLLEGE DISPENSARY CLINICS.

The Faculty has organized a Free Dispensary Clinic, which is held at the College building, and conducted as follows:

**Surgery.**—Mondays and Fridays, at 3 P. M., by Professor W. B. Lewitt, M.D., and C. G. Kenyon, M.D.

**Medicine.**—Mondays and Fridays, at 3 P. M., by Luke Robinson, M.D., M.R.C.P., Eng., and H. W. Dodge, M.D.

**Diseases of the Nervous System.**—Wednesdays, at 4 P. M., by Jules Simon, M. D.

---

### DIDACTIC TEACHING.

A brief outline of the course pursued by the several departments will be found in the following summary :

**Surgery.**—Professor Taylor delivers two lectures each week on the art and science of surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon operative surgery, with demonstrations on the cadaver. The student will be drilled in the manipulation of instruments used in the various operations.

**Practice of Medicine.**—Professor McNutt presents in his lectures during this course the principles and practice of medicine in its modern aspects. He endeavors to give a description of the different diseases, their etiology, pathology, symptoms, diagnosis, prognosis, and treatment. The various pathological changes are demonstrated by means of plates, preparations, and recent specimens of diseased parts.

**Obstetrics.**—The science and art of obstetrics are taught by Professor R. Beverly Cole. His lectures are fully illustrated by the use of colored plates and drawings, prepared specimens, and the manikin. The principal obstetric operations are performed on the cadaver in presence of the class.

**Physiology.**—The lectures in this department by Professor Fish embrace a consideration of both general and special physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared exclusively for these lectures. Besides which, the large collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary, and the use of the microscope fully taught.

**Therapeutics (Medical and Surgical).**—The lectures in this department, by Professor Kerr, will explain the physiological actions and therapeutic indications of all agents, medical and surgical, used for the cure, alleviation, or prevention of diseases.

The action of drugs will be shown by practical demonstrations upon living animals.

**Materia Medica and Medical Chemistry.**—Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting particular attention to that part of *Materia Medica* and Chemistry which pertains more particularly to practical medicine and pharmacy, and using for this purpose all necessary philosophical and chemical apparatus. Special attention will be given to Prescription Writing, Urine Analysis, and Toxicology, and to the nature, origin, physical and chemical, properties of the various remedies official in the United States Pharmacopœia.

Dr. Winslow Anderson, assistant to the Chair of *Materia Medica* and Medical Chemistry, will deliver one lecture each week on Medical Physics, and will conduct the Laboratory investigations, including qualitative analysis and recitations at least three hours each week during the term.

**Anatomy.**—Professor Lewitt's lectures on Anatomy are illustrated by the cadaver, and by both wet and dry preparations, models, manikins and drawings, and include a course on general, special and topographical anatomy. The Dissecting Room is spacious, well ventilated, lighted from above, and provided with every convenience. It is open throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected.

**Gynecology.**—This subject is taught didactically and clinically by Professor Cole. The use of gynecological instruments is carefully shown, and the several procedures explained by means of colored charts, diagrams and preparations.

**Hygiene.**—The importance now attaching to the science of Hygiene induced the Regents and Faculty to give it a place in the curriculum of the school. Dr. Washington Ayer has been appointed to fill the vacancy caused by the death of Dr. F. W. Hatch.

**Diseases of Children.**—Professor Swan will devote one hour each week to this subject, illustrating his lectures by notes drawn from an unusually large experience in the management of diseases peculiar to children.

**Mental Diseases.**—The lectures by Professor Mays on this subject, aim to impart a practical acquaintance with the forms and manifestations of insanity. The causation and prophylaxis of mind disorders receive special consideration. A supplementary series of lectures is given by the Professor, on the *Medical Jurisprudence* of Insanity.

## HOSPITAL INTERNES.

The position of Interne in the City and County Hospital is open each December to three members of the graduating class who recommend themselves to the Faculty by their diligence and general fitness for the appointment. Internes receive their board and lodging for one year, and secure opportunities for accumulating an invaluable experience in every field of practical medicine and surgery.

## THE HIGHER STANDARD OF EDUCATION.

## REQUIREMENTS FOR ADMISSION.

In addition to the curriculum already instituted, namely, a three years' graded course of study, with yearly examinations, and terms of five months.

A matriculation examination is required in the following subjects :

1. ENGLISH.—A written composition, not to exceed one page foolscap in length, upon some subject connected with American history or biography.
2. ARITHMETIC.
3. GEOGRAPHY.
4. ELEMENTARY CHEMISTRY.

No matriculation examination will be required of candidates who have received a Collegiate Degree, or who have passed the examination for admission to, or are graduates of the College of Letters or of Science of the University of California, or who have passed the matriculation examination of any recognized college, or who present a certificate covering the required subjects from a recognized Normal or High School.

Students who have attended one full course in any recognized Medical College shall, upon satisfactory examination in the curriculum provided for the first year, be admitted as students of the *second course* in the University of California.

Students who have attended two courses in any recognized Medical College, shall be admitted as students of the *third course* in this institution, on passing a satisfactory examination in the curriculum provided for the second year.

Graduates of other regular Medical Colleges in good standing, shall be admitted as students of the *third course* in this institution without any examination.

Graduates of Pharmaceutical and Dental Colleges in good standing, are admitted to the second year without examination.

Theological and Law Students will be admitted to special lectures without examination.

The Matriculation examinations will be conducted at the College building on February 28th, and May 30th and 31st, at 10 A. M.

## REQUIREMENTS FOR GRADUATION.

I. The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years, and be of good moral character.

II. He must have studied medicine three full years, and must have attended three regular courses of lectures, the last of which must have been that of the University of California.

III. He must have passed the required examinations, written or oral.

IV. He must have pursued the study of practical anatomy during at least two sessions, and must present certificates of having dissected every part of the cadaver.

V. He must have paid in full the College fees, including the graduation fee.

---

#### BOARDING.

The expense of living in San Francisco is not great. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building. Students from a distance may learn the address of these boarding houses, and other information, by calling on the Dean of the Faculty, Dr. R. A. McLean, 603 Merchant Street, corner of Montgomery.

---

#### FEES.

Matriculation Fee (paid but once).....	\$ 5.
Demonstrator's Ticket.....	10
Fee for the First Course of Lectures.....	130
Fee for the Second Course of Lectures.....	130
No Fee is required for the Third Course of Lectures.	
Graduating Fee.....	40

---

#### TEXT-BOOKS AND WORKS OF REFERENCE.

ANATOMY—Gray, Holden, Quain, Ford's Questions.

PHYSIOLOGY—Dalton, Flint, Foster.

CHEMISTRY—Lloyd's Chemistry of Medicines, Bartley, Witthaus.

HISTOLOGY—Rindfleisch, Stricker.

SURGERY—Ashurst, Bryant, Agnew, Toland, Erichsen.

PRACTICE OF MEDICINE—Roberts, Reynolds, Neimeyer.

CLINICAL MEDICINE—Da Costa, Hartshorne, Flint.

MIDWIFERY—Leishman, Playfair, Bedford, Lusk.

GYNECOLOGY—Thomas, Emmet, Sims.

MATERIA MEDICA—United States Pharmacopœia, Dispensatories (U. S. and National).

THERAPEUTICS—Wood, Bartholow, Ringer.

OPHTHALMOLOGY—Williams, Wells.

OTOLOGY—Roosa, Burnett.

RHINOSCOPY—Robinson, McKenzie.

PEDIATRICS—Lewis Smith, Meigs and Pepper, Eustace Smith.

DERMATOLOGY—Fox, Neumann, Duhring.

MENTAL DISEASES AND MEDICAL JURISPRUDENCE—Maudsley, Bucknell and Tuke, Reese, Taylor.

PATHOLOGY—Wagner, Delafield, Coates.

LARYNGOLOGY—McKenzie, Cohen.

PRESCRIPTION WRITING—Mann, Gerrish.

URINE ANALYSIS—Legge, Hoffmann and Ultzmann.



## GRADUATES—1886.

Brown, Ernest S .....	San Francisco, California.
Chalmers, Willam P. ....	Watsonville, California.
Conlan, William E. ....	San Francisco, California.
Kingsley, Thomas H. ....	San Francisco, California.
Plant, Benjamin A. ....	Sacramento, California.
Soboslay, Julius .....	San Francisco, California.
Wilson, Kemlo R. McD. ....	San Francisco, California.

## MATRICULANTS—1886.

Albee, Daniel P. ....	Eureka, California.
Alexander, Rova E. ....	San Jose, California.
Barbat, John H. ....	San Francisco, California.
Beardsley, Maud E. ....	Oakland, California.
Bond, Frederick T. ....	Vallejo, California.
Bronson, Linda P. ....	San Francisco, California.
Cluness, Wm. R., Jr. ....	Sacramento, California.
Cook, Frank S. ....	Oakland, California.
Cox, Rosamond L. ....	San Francisco, California.
Crumpton, H. J., M. D. ....	Sausalito, California.
Dennis, Nathan P. ....	San Francisco, California.
Estes, Melvin B. ....	San Francisco, California.
Foster, Albert. ....	Walla Walla, Washington Territory.
Foreman, Francesca I. ....	San Francisco, California.
Fottrell, Michael J. ....	San Francisco, California.
Garcia, Frank H. ....	San Leandro, California.
Glaze, George I. ....	Saratoga, Kansas.
Happersberger, Albert K., A. B. ....	San Francisco, California.
Haraszthy, Carlos. ....	San Francisco, California.
Haskin, William H. ....	San Francisco, California.
Henry, Thomas S. ....	Oakland, California.
Hutton, J. A., Lieut., U. S. A. ....	Berkeley, California.
Kelly, John L. ....	Lewiston, Idaho.
Kirchhoffer, F. ....	San Francisco, California.
Lewis, Minerva, M. D. ....	Saratoga, Kansas.
Mays, Arthur H. ....	Stockton, California.
McLean, John T. ....	San Francisco, California.
McMullin, Daniel M. ....	San Francisco, California.
Morrill, Augustus L. ....	Colima, Mexico.
Mueller, Otto J. ....	San Francisco, California.
Noble, John A. ....	San Francisco, California.
O'Donnell, George W. ....	San Francisco, California.
Oliver, Joseph A. ....	San Francisco, California.
Pearman, Wm. E. ....	San Francisco, California.
Reardon, Wm. E. ....	San Francisco, California.
Rietzke, Gustav C. ....	San Francisco, California.
Shannon, James. ....	San Francisco, California.
Sheehy, James W., B. S. ....	San Francisco, California.



Tevis, Harry L.....	San Francisco, California.
Tevis, Samuel.....	East Oakland, California.
Tuggle, Samuel P.....	San Francisco, California.
Troppman, Charles M.....	San Francisco, California.
Waxon, Joseph.....	Sacramento, California.
White, James T.....	East Oakland, California.

---

### SUMMARY.

Graduates 1886.....	7
Under graduates 1886.....	44
Total.....	51

---

### COMPLETE LIST OF GRADUATES.

Addington, D. M.....	Michigan Bar, California.....	1879
Allen, Edward O.....	New York, N. Y.....	1875
Anderson, J. A.....	Kansas.....	1873
Anderson, Winslow.....	San Francisco, California.....	1884
Armistead, Howell V.....	Modesto, California.....	1885
Baldwin, Robert O.....	Davisville, California.....	1885
Barber, Edward T.....	East River, California.....	1866
Bates, Charles B.....	Oroville, California.....	1868
Bates, Walter E.....	Oakland, California.....	1881
Beardsley, E. M.....	San Francisco, California.....	1881
Beaumeister, B. H.....	San Francisco, California.....	1882
Beede, William M. S.....	Bakersfield, California.....	1884
Benedict, C. W.....	Virginia.....	1875
Bettelheim, A. F.....	San Francisco, California.....	1880
Biggs, F. P.....	Valparaiso.....	1876
Blake, Chas. M.....	San Francisco, California.....	1876
Blake, James W.....	San Francisco, California.....	1874
Bordé, Henry J.....	San Jose, California.....	1883
Bradbury, Geo. F.....	San Francisco, California.....	1878
Brannan, J. J.....	Berkeley, California.....	1876
Brierly, Conant B.....	San Francisco, California.....	1876
Briggs, M. W.....	Santa Barbara, California.....	1870
Bromly, R. I.....	Oakland, California.....	1878
Brown, Ernest S.....	San Francisco, California.....	1886
Brown, Geo. J.....	Biggs Station, California.....	1876
Bruns, W. C.....	San Francisco, California.....	1878
Buckley, Vincent P.....	San Francisco, California.....	1884
Burchard, L. S.....	Oakland, California.....	1882
Cairns, John C.....	San Francisco, California.....	1867
Calbreath, John F.....	Weston, Virginia.....	1875
Caldwell, H. H.....	San Jose, California.....	1880
Caldwell, Robert.....	San Jose, California.....	1869
Callaghan, D. T.....	Grand Gulf, Mississippi.....	1873

Cameron, James S.	San Francisco, California	1868
Chaigneau, V. A.	San Francisco, California	1876
Churchill, Leonard	San Francisco, California	1871
Chalmers, Wm. P.	Watsonville, California	1886
Clark, J. J.	San Francisco, California	1869
Clark, Wm. D.	San Francisco, California	1884
Clinton, C. A.	San Francisco, California	1881
Cochran, W. A.	San Francisco, California	1869
Conlan, Wm. E.	San Francisco, California	1886
Collins, Addison C.	Davisville, California	1885
Connolly, John J.	San Francisco, California	1878
Connolly, Thos. E.	Vallejo, California	1884
Corbett, S. J.	San Francisco, California	1868
Cox, Thos, H.	San Francisco, California	1873
Curran, Mary K.	San Francisco, California	1878
Damour, Ferdinand	San Francisco, California	1864
D'Ancona, Arnold A., A.B.	San Francisco, California	1884
Davie, J. C. Jr.	Victoria, Vancouver's Island	1864
Davidson, Joseph R.	Salem, Oregon	1875
Dawson, Alson	New York, New York	1875
Day, John G.	San Francisco, California	1884
Dean, Andrew J.	San Francisco, California	1881
Delmont, Francois	San Buenaventura, California	1874
Depuy, Anson A.	San Francisco, California	1881
Dodge, Henry W.	San Francisco, California	1884
Downs, George W.	Vallejo, California	1879
Drinkhouse, E. J. C.	San Francisco, California	1865
Dubois, A. L.	Lincoln, California	1864
Duncan, S. C.	Vallejo, California	1877
Enright, Chas. M., A.B.	Santa Clara, California	1884
Evans, C. W.	Modesto, California	1881
Fenn, C. N.	San Francisco, California	1865
Fine, Andrew	San Jose, California	1866
Foote, Gilbert	Lakeford, California	1879
Foulkes, J. F. Jr.	Oakland, California	1880
Frost, Joseph	Vallejo, California	1877
Gale, Herbert A.	Sacramento, California	1879
Gallwey, John	San Francisco, California	1885
Gates, Frank H.	San Francisco, California	1884
Gilham, G. W.	Oakland, Oregon	1881
Grattan, E. L.	San Francisco, California	1881
Gros, Edward	San Francisco, California	1865
Guilemard, A. J.	San Francisco, California	1878
Hackett, John	San Francisco, California	1867
Haile, C. S.	Alameda, California	1869
Hampton, James E.	San Francisco, California	1871
Handy, J. C.	San Francisco, California	1864
Hansen, Thomas C.	San Francisco, California	1867
Harmon, R.	Oakland, Oregon	1879
Harris, Thomas W.	Russellville, Indiana	1875

Heavitt, Granville.....	San Francisco, California.....	1866
Heimimann, J. M.....	San Francisco, California.....	1877
Hicks, Young E.....	Merced, California.....	1874
Hodgdon, W. H. A.....	San Francisco, California.....	1876
Hook, Walter E.....	Walnut Creek, California.....	1876
Hopkins, T. P.....	San Francisco, California.....	1880
Howard, Katherine I.....	San Francisco, California.....	1882
Howell, H. H.....	Knight's Ferry, California.....	1879
Hughes, Jerome A.....	San Francisco, California.....	1883
Hughes, L. J.....	San Francisco, California.....	1879
Johnstone, A.....	San Francisco, California.....	1879
Josephi, Simon E.....	East Portland, Oregon.....	1877
Keane, George B.....	San Francisco, California.....	1872
Kingsley, Thomas H.....	San Francisco, California.....	1886
Kirkpatrick, C. A.....	Redwood City, California.....	1871
Kirkwood, J. W.....	Salem, Oregon.....	1876
Kosbue, A. Emil.....	Hamburg, Germany.....	1875
Kurtz, Joseph.....	Los Angeles, California.....	1875
Laidlaw, Horace.....	Oakland California.....	1880
Le Fevre, J. P.....	Plumas County, California.....	1881
Lewitt, F. A.....	San Francisco, California.....	1878
Lindenberger, W. H.....	Bartlett Springs, California.....	1876
Lingo, Marin B.....	Salem, Oregon.....	1866
Lonigo, Emile V.....	San Francisco, California.....	1883
Lord, Franklin F.....	San Francisco, California.....	1880
Lovett, Wm. B.....	Oakland, California.....	1883
Lunborg, Gustaf W.....	San Francisco, California.....	1883
Lustig, Daniel D., Ph.G.....	San Francisco, California.....	1885
Lyford, L. Dexter.....	San Francisco, California.....	1872
Mackenzie, J. H.....	Edinburg, Scotland.....	1870
Martineaut, E. D.....	San Francisco, California.....	1873
Mason, Benjamin F.....	San Francisco, California.....	1875
Matthewson, J. M.....	San Francisco, California.....	1882
Mays, Wm. H.....	San Francisco, California.....	1873
McColl, G. F.....	East Portland, Oregon.....	1877
McCormack, —.....	St. Helena, California.....	1876
McCoy, Juan W.....	Bell's Ridge, California.....	1884
McDermott, Wm. P.....	San Francisco, California.....	1874
McDonald, J. J.....	San Francisco, California.....	1877
McGuire, Lucius.....	San Francisco, California.....	1868
McLaughlin, M. A.....	San Francisco, California.....	1878
McLean, Robert A.....	Modesto, California.....	1874
Mervy, Emile C.....	San Francisco, California.....	1883
Merritt, T. W.....	San Francisco, California.....	1882
Meyers, R. C.....	San Francisco, California.....	1880
Miller, Chas. F.....	San Francisco, California.....	1874
Miller, John A.....	San Francisco, California.....	1875
Minor, John F.....	San Francisco, California.....	1876
Moody, Mary F.....	San Francisco, California.....	1882
Morgan, F. E.....	Santa Cruz, California.....	1881

Mueller, H. E.....	Brooklyn, California.....	1880
Muenter, Henry.....	Stockton, California.....	1882
Newmark, Valentine.....	San Francisco, California.....	1868
Nichols, Theodore A.....	Mission San Jose, California.....	1885
Nottage, George E.....	Stockton, California.....	1874
Nuttall, George H. F.....	San Francisco, California.....	1884
Olds, Wm. H.....	San Francisco, California.....	1881
O'Neill, A. A.....	San Francisco, California.....	1867
O'Neill, J. C.....	Vallejo, California.....	1873
Oster, Chas.....	Oakland, Oregon.....	1878
Partsch, Herman.....	San Francisco, California.....	1884
Paton, Chas. J.....	San Francisco, California.....	1883
Patterson, T. J.....	Visalia, California.....	1882
Payne, J. R.....	San Francisco, California.....	1882
Perrault, Edward L.....	San Francisco, California.....	1885
Pescia, Joseph.....	San Francisco, California.....	1877
Plant, Benj. A.....	Sacramento, California.....	1886
Plummer, Richard H.....	Yolo, California.....	1866
Pond, Henry M.....	San Francisco, California.....	1886
Pond, W. B.....	San Francisco, California.....	1864
Pope, Horace E.....	San Francisco, California.....	1876
Powell, J. M.....	Mammoth, Oregon.....	1876
Pressley, J. B.....	Santa Rosa, California.....	1882
Prevost, J. Renny.....	San Jose, California.....	1866
Pruett, J. A.....	Pendleton, Oregon.....	1878
Quinlan, Albert P.....	San Francisco, California.....	1876
Reardon, T. B.....	Oroville, California.....	1882
Reed, Clarence E.....	Placerville, California.....	1883
Reich, George A.....	San Francisco, California.....	1877
Reynolds, George E.....	San Francisco, California.....	1877
Richardson, J. A.....	Amity, Oregon.....	1866
Riley, J. S.....	Vallejo, California.....	1883
Robertson, John W.....	San Francisco, California.....	1880
Robinson, Luke.....	Petaluma, California.....	1867
Rorke, James.....	San Francisco, California.....	1876
Rucker, H. N.....	Santa Clara, California.....	1870
Rupe, Samuel H.....	Healdsburg, California.....	1866
Sabey, L. A.....	San Francisco, California.....	1880
Sage, C. T.....	San Francisco, California.....	1870
Sawyer, H. C.....	San Francisco, California.....	1881
Schellhous, E. J.....	Huron County, Ohio.....	1875
Schnabel, Martin.....	Newcastle.....	1873
Scholl, Albert L., Ph.G.....	San Francisco, California.....	1884
Scott, Arthur W.....	San Francisco, California.....	1879
Seavey, L. T.....	Port Townsend, Oregon.....	1878
Seawell, John L.....	Healdsburg, California.....	1870
Seawell, Thomas H.....	Healdsburg, California.....	1876
Sellon, Anna F.....	San Francisco, California.....	1881
Senter, E. S.....	San Jose, California.....	1882
Sheets, John H.....	Phoenix, Arizona Territory.....	1881

Shelton, Thos. W .....	Salem, Oregon.....	1867
Sherman, Elenora S .....	San Francisco, California .....	1884
Shuey, Sarah I.....	East Oakland, California.....	1878
Sichel, Gust. W.....	San Francisco, California .....	1876
Simon, Jules A.....	Paris, France.....	1875
Soboslay, Julius.....	San Francisco, California .....	1886
Smith, George S.....	San Francisco, California .....	1879
Smith, T. H.....	Eureka, California .....	1876
Smith, Wm. P.....	Salem, Oregon .....	1875
Sparks, Agnes.....	San Francisco, California .....	1879
Stanton, James.....	San Francisco, California .....	1882
Steely, John.....	Kirbyville, Oregon.....	1867
Stevenson, J. R.....	San Francisco, California .....	1877
Stewart, J. M.....	San Francisco, California .....	1882
Stivers, C. A.....	San Francisco, California .....	1864
Summers, G. M.....	Sonora, California .....	1876
Summers, John F .....	San Francisco, California .....	1878
Sutro, Emma L.....	San Francisco, California .....	1881
Swann, Charles M.....	San Francisco, California .....	1875
Swisher, J. R .....	Danville, Illinois.....	1877
Tartar, A. P.....	Tehama, California.....	1882
Taylor, Edward R.....	San Francisco, California .....	1865
Toland, Charles A.....	San Francisco, California .....	1869
Turner, J. T.....	Mariposa, California.....	1869
Tuttle, H. P.....	Castroville, California .....	1869
Urban, Kurt.....	San Francisco, California .....	1883
Voigt, W. C.....	San Francisco, California .....	1879
Von Buelo, F.....	San Francisco, California .....	1877
Walz, G.....	San Francisco, California .....	1868
Wanzer, L. M. F.....	San Francisco, California .....	1876
Waters, John W.....	Carson City, Nevada .....	1874
Webber, J. C.....	Sierra County, California.....	1869
Weeks, F. L.....	San Francisco, California .....	1864
Wheaton, S. P.....	Oakland, California.....	1877
Whittell, A. P.....	San Francisco, California .....	1873
Weiss, E. M.....	San Francisco, California .....	1877
Welch, W. P.....	San Francisco, California .....	1864
Wickman, Wm. J.....	San Francisco, California .....	1883
Widney, J. P.....	Santa Clara, California .....	1867
Wilcox, Wilber J.....	Oakland, California.....	1885
Williamson, John M.....	Vallejo, California.....	1885
Williamson, W. T.....	East Portland, Oregon.....	1877
Wilson, Kemlo R. McD.....		
Winton, Henry N.....	Haywards, California.....	1885
Woods, W. E. Josephine.....	San Francisco, California .....	1885
Wooster, David.....	San Francisco, California .....	1885
Young, Junius D.....	Stockton, California.....	1881
Younger, Alex J.....	San Francisco, California .....	1869
Younger, Edward A.....	San Francisco, California .....	1879
Total.....		231



## ALUMNI ASSOCIATION.

---

A permanent organization of the Alumni Association of the Medical Department of the University of California has been effected, and its objects are the promotion of the prosperity of the University, the collection of anatomical, pathological and other specimens of interest for the College Museum, the maintenance and cultivation of fraternal feeling among the alumni, and the advancement of the interests of Medical Education and the diffusion of sound medical and scientific knowledge.

Any graduate of the Medical Department of the University of California in good standing in the profession is eligible to membership upon the payment of the initiation fee of five dollars, which shall entitle the applicant to a CERTIFICATE OF MEMBERSHIP, signed by the President, Vice-President and Secretary of the Association.

Any alumnus in good professional standing may receive a CERTIFICATE OF LIFE MEMBERSHIP upon the payment of twenty dollars. The Professors and assistants of the Medical Department are eligible to honorary membership, for which they are to receive an appropriate certificate.

Meetings will be held quarterly, during first weeks in February, May, August and November of each year. One or more papers will be read each meeting by members of the Association, on medical education, scientific discoveries, reports of interesting cases, etc., and then thrown open for general discussion, that the members may be mutually benefitted by the observations of all present.

An annual banquet will be given by the Association to its members, in which the graduating class will be invited to participate.

Alumni in the various parts of the State or country may become members as above stipulated by communication with the Secretary.

The officers elected for the year of 1886-7 :

Kate J. Howard, M. D., President.

Jules Simon, M. D., Vice-President.

Henry W. Dodge, M. D., Secretary.

Jerome A. Anderson, M. D., Treasurer.

### *Executive Committee.*

John G. Day, M. D., Chairman.

Emile V. Lonigo, M. D.

Mary F. Moody, M. D.

Alumni are cordially invited to join the Association.

Copies of the Constitution and By-Laws will be mailed to any address.

Members will please notify the Secretary of any change in their residence.

For further particulars, address the Secretary of the Association—

JULES SIMON, M. D.,

No. 323 Geary Street,  
San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

## ACADEMIC SENATE.

NOTE.—Arranged alphabetically in each division of Professors, Assistant Professors, Instructors, and Lecturers.

EDWARD SINGLETON HOLDEN, LL.D., 120 Sutter St., San Francisco.  
*President of the University, and Director of the Lick Observatory.*

WILLIAM ASHBURNER, - - - 1014 Pine St., San Francisco.  
*Honorary Professor of Mining.*

WASHINGTON AYER, M.D., - - 410 Kearny St., San Francisco.  
*Professor of Hygiene.*

HERMANN HANS BEHR, M.D., - - 509 Kearny St., San Francisco.  
*Professor of Botany in the College of Pharmacy.*

J. H. C. BONTE, D.D., - . - - - University Grounds.  
*Professor of Legal Ethics, and Secretary of the Academic Senate.*

GEORGE WOODBURY BUNNELL, A.M., - - Cor. Telegraph and Caledonia  
Avenues, Oakland.  
*Professor of the Greek Language and Literature.*

SAMUEL BENEDICT CHRISTY, PH.B., - Piedmont, near Bancroft Way,  
Berkeley.  
*Professor of Mining and Metallurgy.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG., 218 Post St., San Francisco.  
*Professor of Obstetrics and Gynecology.*

ALBERT S COOK, PH.D., - - Cor. Dwight Way and Audubon St., Berkeley.  
*Professor of the English Language and Literature.*

GEORGE DAVIDSON, A.M., PH.D., - - 923 Hyde St., San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

SAMUEL WILLIAM DENNIS, M.D., D.D.S., 530 Sutter St., San Francisco.  
*Professor of Operative Dentistry and Dental Histology.*

STEPHEN J. FIELD, LL.D., - - - - - Washington, D. C.  
*Honorary Professor of Law.*

MALANCTHON WILLIAMS FISH, M.D., - - - - - East Oakland.  
*Professor of Physiology and Microscopy.*

CLARK LAMOTTE GODDARD, A.M., D.D.S., 131 Post St., San Francisco.  
*Professor of Mechanical Dentistry, and Dean of the Dental Faculty.*

FREDERICK A. GRAZER, Ph.G., - 113 Fulton St., San Francisco  
*Professor of Materia Medica in the College of Pharmacy.*

GEORGE F. H. HARRISON (1st Lieut. 2d U. S. Artillery), 806 Franklin St.,  
 San Francisco.  
*Professor of Military Science and Tactics.*

SERRANNO CLINTON HASTINGS, LL.D., 636 Clay St., San Francisco.  
*Professor of Comparative Jurisprudence.*

FREDERICK GODFRAY HESSE, Cor. Alice and Eleventh Sts., Oakland.  
*Professor of Mechanical Engineering.*

EUGENE WALDEMAR HILGARD, Ph.D., Bancroft Way, near Audubon  
 Street, Berkeley.  
*Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.*

GEORGE H. HOWISON, A.M., LL.D., Ellsworth St., near Bancroft Way,  
 Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*

ABRAHAM WENDELL JACKSON, Ph.B., - - - - - Berkeley.  
*Professor of Mineralogy.*

FRANCIS B. KANE, M.D., M.K. S.I., - 46 O'Farrell St., San Francisco.  
*Professor of Clinical Medicine and Pathology.*

MARTIN KELLOGG, A.M., - - - - - Bushnell St., Berkeley.  
*Professor of the Latin Language and Literature.*

W. WATT KERR, M. D., - - - - - 520 Sutter St., San Francisco.  
*Professor of Therapeutics.*

JOHN LeCONTE, M.D., LL.D., - Cor. Dwight Way and Mark St., Berkeley.  
*Professor of Physics.*

JOSEPH LeCONTE, M.D., LL.D., - Bancroft Way, near Piedmont Ave.,  
 Berkeley.  
*Professor of Geology and Natural History.*

ABRAHAM LEWIS LENGFELD, M.D., Cor. Stockton and Geary Sts., San  
 Francisco.  
*Professor of Materia Medica and Medical Chemistry.*

WILLIAM BREAKEY LEWITT, M.D., - 605 Laguna St., San Francisco.  
*Professor of Anatomy.*

WILLIAM H. MAVS, M.D., - - - - -  
*Professor of Mental Diseases and Medical Jurisprudence.*

ROBERT A. McLEAN, M.D., - - - 603 Merchant St., San Francisco.  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*

W. F. McNUTT, M.D., M.R.C.P., EDIN., ETC., - 121 Montgomery St., San Francisco.

*Professor of the Principles and Practice of Medicine.*

BERNARD MOSES, PH.D., - - - - Audubon St., Berkeley.

*Professor of History and Political Economy.*

EDWARD THOMAS OWEN, A.B., - 1001 Pine St., San Francisco.

*Professor of the French and Spanish Languages and Literature.*

GEORGE HERMAN POWERS, A.M., M.D., - - - - San Francisco.

*Professor of Ophthalmology and Otology.*

ALBIN PUTZKER, - - - Cor. Humboldt Ave. and Parker St., Berkeley.

*Professor of the German Language and Literature.*

WILLARD BRADLEY RISING, PH.D., Cor. Allston and Chapel Sts., Berkeley.

*Professor of Chemistry.*

EDWARD WHEELOCK RUNYON, PH.G., 529 Market St., San Francisco.

*Professor of the Theory and Practice of Pharmacy, and Dean of the Pharmaceutical Faculty.*

GEORGE AUGUSTUS SHURTLEFF, M.D., - - - - Napa.

*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

CHARLES WILLIAM SLACK, - - - - San Francisco.

*Acting Professor of Municipal Law.*

FRANK SOULÉ JR. (United States Military Academy), 940 Oak St., Oakland.

*Professor of Civil Engineering and Astronomy.*

F. H. STODDARD, - - - - Oakland.

*Instructor in English.*

IRVING STRINGHAM, PH.D., Cor. Piedmont and Bancroft Way, Berkeley.

*Professor of Mathematics.*

MAURICE J. SULLIVAN, D.D.S., - - 30 Post St., San Francisco.

*Professor of Dental Pathology and Therapeutics.*

BENJAMIN RALPH SWAN, M.D., - . 310 Stockton St., San Francisco.

*Professor of Diseases of Children.*

WILLIAM EDWIN TAYLOR, M.D., - - 215 Geary St., San Francisco.

*Professor of the Principles and Practice of Surgery.*

WILLIAM THEODORE WENZELL, M.D., 19 Drumm St., San Francisco.

*Professor of Chemistry in the College of Pharmacy.*

JOSEPH W. WINANS, A.M. - - 604 Merchant St., San Francisco.

*Dean of the Law Faculty.*

---

Agassiz Professor of Oriental Languages and Literature.

---

Professor of Municipal Law.

JOHN BERNARD CLARKE, PH.B., - 1736 Thirteenth St., Oakland.

*Assistant Professor of Mathematics.*

GEORGE CUNNINGHAM EDWARDS, PH.B., 1568 Webster St., Oakland.

*Assistant Professor of Mathematics.*

CORNELIUS BEACH BRADLEY, A.B., - 668 Eighteenth St., Oakland.

*Instructor in English.*

WM. W. DEAMER, A.B., - - Cor. Home and University Aves., Berkeley.

*Instructor in Latin, and Recorder.*

EDWARD LEE GREENE, - . Ellsworth St., nr. Bancroft Way, Berkeley.

*Instructor in Botany.*

CHARLES S. GREENE, - - - - - San Francisco.

*Instructor in Latin, College of Pharmacy.*

†AUGUST HARDING, - - - - - 416 Tenth St., Oakland.

*Instructor in Chemistry.*

A. WENDELL JACKSON, JR., PH.B., - - Fourth Club House, Berkeley.

*Instructor in Mineralogy, Petrography, and Economic Geology.*

WILLIAM CAREY JONES, A.M., Bancroft Way, near Dana St., Berkeley.

*Instructor in United States History and Constitutional Law.*

HERMANN KOWER, C.E., - - - 616 Fourteenth St., Oakland.

*Instructor in Instrumental Drawing.*

CHARLES HERBERT LEVERMORE, PH.D., - Durant Ave., Berkeley.

*Instructor in History.*

EDMOND C. O'NEILL, PH.B., - - - 1403 Chestnut St., Oakland.

*Instructor in Chemistry.*

WILLIAM GALT RAYMOND, C.E., Parker St., near Fulton, Berkeley.

*Instructor in Civil Engineering.*

FREDERICK SLATE, JR., - - Audubon St., nr. Bancroft Way, Berkeley.

*Superintendent of Physical Laboratory, and Instructor in Physics and Mechanics.*

---

EDWARD JAMES WICKSON, A.M., Atherton St., near Bancroft Way,  
Berkeley.

*Lecturer on Practical Agriculture.*

ADOLPH SOMMER, PH.G., - - - - - West Berkeley.

*Assistant in Chemistry.*

JAMES P. H. DUNN, B.S., - - - - - Claremont.

*Assistant in Chemistry.*

---

† Serving during the absence of Mr. Browne.



# UNIVERSITY OF CALIFORNIA.

## DENTAL DEPARTMENT.

STOCKTON STREET, BETWEEN CHESTNUT AND FRANCISCO.

### FACULTY.

- E. S. HOLDEN, A.M., LL.D., *President of the University, and ex-officio President of the Faculty.*  
JOSEPH LECONTE, M.D., LL.D., *Honorary Professor of Biology.*  
S. W. DENNIS, M.D., D.D.S., *Professor of the Principles and Practice of Operative Dentistry, and Dental Histology.*  
C. L. GODDARD, A.M., D.D.S., *Professor of Mechanical Dentistry.*  
M. W. FISH, M.D., *Professor of Physiology.*  
A. L. LENGFELD, M. D., *Professor of Materia Medica, and Medical Chemistry.*  
W. E. TAYLOR, M.D., *Professor of the Principles and Practice of Surgery.*  
WM. B. LEWITT, M.D., *Professor of Anatomy.*  
MAURICE J. SULLIVAN, D.D.S., *Professor of Pathology and Therapeutics.*

### DEMONSTRATORS.

- J. SCHNEIDER, D.D.S., *Demonstrator of Operative Dentistry.*  
CHARLES BOXTON, D.D.S., MILTON GABBS, D.D.S., *Demonstrators of Mechanical Dentistry.*  
JOHN G. DAY, M.D., *Demonstrator of Anatomy.*

- ARNOLD A. D'ANCONA, A.B., M.D., *Assistant to the Chair of Physiology.*  
WINSLOW ANDERSON, M.D., *Assistant to the Chair of Materia Medica and Medical Chemistry.*

### CLINICAL INSTRUCTORS.

- |                            |                          |
|----------------------------|--------------------------|
| H. C. DAVIS, L.D.S.        | H. J. PLOMTEAUX, D.D.S.  |
| L. L. DUNBAR, D.D.S.       | W. E. PRICE, D.D.S.      |
| B. W. HAINES, M.D., D.D.S. | JNO. RABE, D.D.S.        |
| C. W. HIBBARD, D.D.S.      | MAX. SICHEL.             |
| W. B. KINGSBURY.           | F. J. SAXE, A.M., D.D.S. |
| A. F. McLAIN, M.D., D.D.S. | WILLIAM WOOD.            |
| THOS. MORFFEY, D.D.S.      |                          |

The session of 1887 begins March 7th, and ends November 30th.

Graduates in medicine may apply for the degree of Doctor of Dental Surgery, after having passed *two* full years of practical instruction or experience in dentistry, *one* year of which, including one course of lectures, must be spent in this institution.

### FEES.

Matriculation (paid but once). . \$	5 00	Demonstrator of Anatomy's fee. \$	10 00
Tuition. . . . .	120 00	Diploma. . . . .	30 00

C. L. GODDARD, Dean.  
131 Post Street, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

---

## DEPARTMENT OF PHARMACY.

---

### FACULTY.

---

EDWARD S. HOLDEN, LL.D., PRESIDENT OF THE UNIVERSITY OF CALIFORNIA.

WILLIAM T. WENZELL, M.D., PH.G..... PROFESSOR OF CHEMISTRY.

HERMANN H. BEHR, M.D..... PROFESSOR OF BOTANY.

FREDERICK A. GRAZER, PH.G..... PROFESSOR OF MATERIA MEDICA.

EDWARD W. RUNYON, PH.G..... PROFESSOR OF PHARMACY.

---

The Fifteenth Annual Course will begin April 4th, 1887, and continue to October 1st of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical Work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

A gold medal, scientific apparatus, and a free scholarship will be bestowed in each session.

Library and reading room is open daily, and is free to the use of students.

For Prospectus, etc., address,

EDWARD W. RUNYON, PH.G., Dean,

529 AND 531 MARKET STREET,

SAN FRANCISCO, CAL.

# UNIVERSITY OF CALIFORNIA.

---

## UNDERGRADUATE DEPARTMENTS AT BERKELEY.

### INCLUDING

- |  |                                  |
|--|----------------------------------|
| 1. COLLEGE OF LETTERS.                       | 3. COLLEGE OF MECHANICS.         |
| (a) CLASSICAL COURSE.                        | 4. COLLEGE OF MINING.            |
| (b) LITERARY COURSE.                         | 5. COLLEGE OF CIVIL ENGINEERING. |
| (c) COURSE IN LETTERS AND POLITICAL SCIENCE. | 6. COLLEGE OF CHEMISTRY.         |
2. COLLEGE OF AGRICULTURE.
- 

### Academic Staff.

- EDWARD S. HOLDEN, LL.D., President of the University.  
WILLIAM ASHBURNER, Honorary Professor of Mining.  
GEO. WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.  
SAMUEL B. CHRISTY, PH.B., Professor of Mining and Metallurgy.  
ALBERT S. COOK, PH. D., Professor of the English Language and Literature.  
GEO. DAVIDSON, PH.D., Honorary Professor of Geodesy and Astronomy.  
STEPHEN J. FIELD, LL.D., Honorary Professor of Law.  
GEORGE F. E. HARRISON, (1st Lieut. 2d U. S. Artillery), Professor of Military Science and Tactics.  
FREDERICK G. HESSE, Professor of Mechanical Engineering.  
EUGENE W. HILGARD, PH.D., LL. D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.  
GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.  
A. WENDELL JACKSON, JR., PH.B., Professor of Mineralogy, Petrography and Economic Geology.  
WILLIAM CAREY JONES, A.M., Instructor in United States History and Constitutional Law, and Professor of Roman and Constitutional Law.  
MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.  
JOHN LÉCONTE, M.D., LL.D., Professor of Physics.  
JOSEPH LÉCONTE, M.D., LL.D., Professor of Geology and Natural History.  
BERNARD MOSES, PH.D., Professor of History and Political Economy.  
EDWARD T. OWEN, A.B., Professor of the French and Spanish Languages and Literature.  
ALBIN PUTZKER, Professor of the German Language and Literature.  
WILLARD B. RISING, M. E., PH.D., Professor of Chemistry.  
FRANK SOULÉ, (U. S. Military Academy), Professor of Civil Engineering and Astronomy.  
IRVING STRINGHAM, PH.D., Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.

C. B. BRADLEY, A.M., Assistant Professor of the English Language and Literature.

JOHN B. CLARK, PH.B., Assistant Professor of Mathematics.

GEORGE C. EDWARDS, PH.B., Assistant Professor of Mathematics.

EDWARD LEE GREENE, Assistant Professor of Botany.

FREDERICK SLATE, Assistant Professor of Physics and Mechanics.

WILLIAM W. DEAMER, A.B., Instructor in Latin and Greek.

†AUGUST HARDING, Instructor in Chemistry.

HERMANN KOWER, C.E., Instructor in Instrumental Drawing.

CHARLES H. LEVERMORE, PH.D., Instructor in History.

\*EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.

WM. G. RAYMOND, C.E., Instructor in Civil Engineering.

J. HENRY SENGGER, A.B., Instructor in German.

FRANCIS H. STODDARD, A.M., Instructor in English.

E. J. WICKSON, A.M., Lecturer on Practical Agriculture and Assistant Superintendent of the Experimental Grounds.

JAMES P. H. DUNN, B. S., Assistant in Chemistry.

#### ASSISTANTS AND OTHER OFFICERS.

MYER E. JAFFA, PH.B., First Assistant in the Viticultural Laboratory.

FREDERICK W. MORSE, PH.B., Assistant in the General Agricultural Laboratory.

GEORGE ELLEN COLBY, PH.B., Second Assistant in the Viticultural Laboratory.

ADOLPH SOMMER, PH.G., Assistant in Chemistry.

JOSEPH A. SLADKY, Superintendent of the Machine Shop.

JOSEPH C. ROWELL, A.B., Librarian.

J. J. RIVERS, Curator of the University Museum.

† Serving during the absence of Mr. O'Neill.

\* Absent on leave.

## COURSES OF INSTRUCTION.

---

### GRADUATE COURSES.

To graduates of the University of California, or of other institutions of equal grade, who may wish to pursue advanced work, general or special, is extended every facility that the libraries, laboratories, and collections of the University afford. So far as is possible, courses of study will be framed to meet the requirements of such students. These courses may be so constituted as to lead, respectively, to the degree of Master of Arts, Master of Letters, Master of Philosophy, Master of Science, Doctor of Philosophy or Doctor of Science ; or to the professional degree of Mechanical Engineer, Mining Engineer, Metallurgical Engineer, or Civil Engineer.

---

### UNDERGRADUATE COURSES.

There are established EIGHT REGULAR COURSES of study, leading directly, under conditions specified in the Joint Regulations of the Faculty of Letters and the Faculties of Science, to corresponding degrees, namely :

In charge of the Faculty of the College of Letters :

- I. The *Classical Course*, leading to the degree of A.B. ;
- II. The *Literary Course*, leading to the degree of B.L. ;
- III. The *Course in Letters and Political Science*, leading to the degree of Ph.B.

In charge, severally, of the respective Faculties of the five Colleges of Science :

- IV. The *Course in Agriculture* ;
- V. The *Course in Mechanics* ;
- VI. The *Course in Mining* ;
- VII. The *Course in Civil Engineering* ;
- VIII. The *Course in Chemistry* ;

Each of which leads regularly to the degree of B.S.

To each of these Regular Courses, there pertains an established curriculum of studies, prescribed and elective, arranged in the order of four successive years, as exhibited in the annual Register of the University.

There are permitted, in addition, *Courses at Large* and *Partial Courses* not leading directly to any degree, but through each of which, on the conditions pertaining to the status of the student pursuing it as specified in the Joint Regulations, some one of the above-named degrees is possibly attainable.

---

## REQUIREMENTS FOR ADMISSION.

---

Applicants for admission must be at least sixteen years of age ; must deposit with the Recorder, a certificate of good moral character, and must pass a satisfactory examination in such of the following subjects as are designated, on page 29, for the Course and Status sought :



1. ENGLISH. A short composition, correct in spelling, punctuation, paragraphing, and grammar, upon a subject announced at the time of the examination, and taken, until further notice, from the following works: Tom Brown's School Day's at Rugby; Scott's Lady of the Lake; Irving's Alhambra; Thackeray's Newcomes; Shakespeare's Merchant of Venice, and Julius Cæsar (Rolfe's or the Clarendon Press edition).

2. ARITHMETIC. Including the metric system.

3. ALGEBRA. (a) To Quadratic Equations. (b) Quadratic Equations, both single and simultaneous, their solution and their theory.

4. PLANE GEOMETRY. (a) Plane geometry except the metrical properties of polygons and the measurement of the circle. (b) The general properties of regular polygons, and the measurement of the circle.

5. HISTORY AND GEOGRAPHY. History of the United States, and the general facts of Physical and Political Geography.

6. LATIN. Cæsar, Gallic War, Books I.-IV. (or Civil War, Books I.-II); Cicero, the Four Catilinarian Orations, translation into Latin of simple English sentences.

7. LATIN. Cicero, the Orations *Pro Archia Poeta* and *Pro Lege Manilia*; Vergil, *Aeneid*, Books I.-VI.; sight translation of easy Latin prose; translation into Latin of brief connected narratives.

8. GREEK. Xenophon, *Anabasis*, Book I.; White's First Lessons in Greek, Lessons I.-LX.; translation into Greek of simple English sentences.

9. GREEK. Xenophon, *Anabasis*, Books II.-IV., or Goodwin's Greek Reader, pp. 37-111; Homer, *Iliad*, Books I.-II., omitting the catalogue of ships; Jones's Greek Prose Composition, or its equivalent; sight translation of easy Greek prose.

10. ANCIENT HISTORY AND GEOGRAPHY. (a) Greek History to the death of Alexander, with the connected Geography.

(b) Roman History to the death of Commodus, with the connected Geography.

11. PHYSICS. The elements of the subject taught experimentally.

12. ANY ONE OF THE FOLLOWING:

(a) CHEMISTRY. The elements of Chemistry.

(b) BOTANY. The elements of Botany.

(c) PHYSIOLOGY. The elements of Physiology.

(d) MINERALOGY. The elements of Mineralogy.

(e) PLANE TRIGONOMETRY. The development of the general formulæ, solution of plane triangles, and practice in the use of logarithmic tables.

(f) FREE-HAND DRAWING. Line drawing from models, copying of patterns, etc.

13. HISTORY. History of England.

14. ENGLISH. The examination in this subject will presuppose thorough study of the selections named below:

Scott's Lay of the Last Minstrel; Whittier's Snow-Bound; Longfellow's Evangeline; Lowell's Sir Launfal; Sir Roger de Coverley; Burke's Works, edited by Payne, Vol. I; and Hales' Longer English Poems, omitting Woodsworth's Laodamia and Shelley's Adonais.

## GROUPS OF SUBJECTS FOR THE SEVERAL COURSES.

Of the foregoing Subjects, one of the following Four Groups, or parts of them, must be taken, according to the Course and Status applied for :—

I. For the Classical Course, Subjects 1, 2, 3*a*, 4*a*, 5, 6, 7, 8, 9, and 10.

II. For the Literary Course, Subjects 1, 2, 3*a*, 4*a*, 5, 6, 7, 10, 13, and 14.

III. For the Course in Letters and Political Science, Subjects 1, 2, 3*a*, 4*a*, 5 ; and either 6, 7, 8, 9, and 10 ; or 6, 7, 10, 13, and 14 ; or 3*b*, 4*b*, 11, 12, and either 6 or 14.

IV. For any of the five Courses in Science, Subjects 1, 2, 3 (*a* and *b*), 4 (*a* and *b*), 5, 11, 12, and either 6 or 14.

For a Course at Large, either of the Four Groups required for admission to a Regular Course, as the applicant may elect. And in case the applicant proposes, if admitted, to take any study out of the prescribed order, all the examinations required for its pursuit by a Regular student must be passed before admission.

For a Special Course, such of the General List of Subjects as, in the judgment of the professors or instructors in charge of the special line of studies intended, are requisite for its proper pursuit. The list thus approved must be deposited with the Recorder before the examination. No applicant who has failed in the entrance examination for a regular Course or a Course at Large, will be allowed to take a Special Course.

For a Limited Course, Subjects 1, 2, 3*a*, 4*a*, and 5 ; and, in addition, any in the General List that are requisite to the studies sought by the applicant. If advanced studies are sought, the applicant must pass all the examinations conditional to them that are required of Regular Students. The exact list of requisite subjects must be ascertained through the Recorder, and deposited with him before the examination.

---

## TIMES AND PLACES OF EXAMINATION.

In June, 1887, the Entrance Examination will be held simultaneously at Berkeley, Los Angeles, and Grass Valley, through the Thursday, Friday, and Saturday following the annual Commencement in the College of Letters and the Colleges of Science.

In September, the Second Entrance Examination will be held at Berkeley only, continuing through Thursday, Friday, and Saturday, the first three days of the first term.

No applicant for admission will be examined at any other time, except for reasons of the most exceptional urgency.

---

## PRELIMINARY ENTRANCE EXAMINATIONS.

Any applicant for admission to a Regular Course or to a Course at Large may, at option, pass the entire entrance examination at one time or divide it be-

tween two years, passing part of it as a preliminary examination in one year, and completing the remainder the next year. But neither the preliminary examination nor the remainder in completion may be divided between the June and September examinations of the same year.

Applicants will not be admitted to the preliminary examination without certificates from their teachers that they are prepared in the subjects they offer. These certificates must be addressed to the Recorder of the Faculties, Berkeley, and must be in his hands previous to the examination.

Certificates of partial admission will only be issued for subjects passed without conditions, nor will any certificate be issued to an applicant who does not pass in at least five of the subjects offered. These subjects must be confined to Subjects 1, 2, 3a, 4a, 5, 6, 8, 10 (a or b), 11, and 13 of the General List, which must be grouped for the several Courses as follows :

I. For the Classical Course, Subjects 1, 2, 3a, 4a, 5, 6, 8, and 10 (a or b).

II. For the Literary Course, Subjects 1, 2, 3a, 4a, 5, 6, 10 (a or b), and 13.

III. For the Course in Letters and Political Science, Subjects 1, 2, 3a, 4a, 5; and either 6, 8, and 10 (a or b); or 6, 10 (a or b), and 13; or 11 and 6.

IV. For any of the five Courses in Science, Subjects 1, 2, 3a, 4a, 5, 11, and 6.

For a Course at Large, either of the preceding groups. But for no Course will an examination be granted on part of a Subject.

---

#### ADMISSION FROM APPROVED PUBLIC SCHOOLS.

By a regulation adopted by the Board of Regents, it is established, that—

“Upon the request of the Principal of any public school in California whose course of study embraces, in kind and extent, the subjects required for admission to any College of the University at Berkeley, a committee of the Academic Senate will visit such school, and report upon the quality of the instruction there given. If the report of such committee be favorable, a graduate of the school, upon the personal recommendation of the Principal, accompanied by his certificate that the graduate has satisfactorily completed the studies of the course preparatory to the College he wishes to enter, may, at the discretion of the Faculty of such College, be admitted without examination.”

---

*More detailed information concerning the foregoing matters, and concerning the Academic and Scientific Departments in general, is contained in the admission Circular (Bulletin No. 6), and the University Register, either of which will be sent to any address, on application to the RECORDER OF THE FACULTIES, Berkeley, California.*

THE LIBRARY OF THE  
FEB 26 1901  
UNIVERSITY OF ILLINOIS.











C 1242 m  
1887/88

# ANNOUNCEMENT

OF THE

TWENTY-FIFTH ANNUAL COURSE OF LECTURES

OF THE

# MEDICAL DEPARTMENT

UNIVERSITY OF CALIFORNIA

WITH

THE LIBRARY OF THE  
FEB 26 1901  
UNIVERSITY OF ILLINOIS

CATALOGUE OF STUDENTS AND GRADUATES.

1888.

Alumni of the Medical Department of the University,  
and others desiring to receive the ANNOUNCEMENT regularly, are requested  
to send their names and addresses to the Dean.

SAN FRANCISCO:

A. J. LEARY, PRINTER AND PUBLISHER,  
1888.



ANNOUNCEMENT

OF THE

TWENTY-FIFTH ANNUAL COURSE OF LECTURES

OF THE

# MEDICAL DEPARTMENT

UNIVERSITY OF CALIFORNIA.

WITH

CATALOGUE OF STUDENTS AND GRADUATES.

1888.

---

Alumni of the Medical Department of the University,  
and others desiring to receive the ANNOUNCEMENT regularly, are requested  
to send their names and addresses to the Dean.

---

SAN FRANCISCO:  
A. J. LEARY, PRINTER AND PUBLISHER,  
1888.

THE LIBRARY OF THE  
FEB 26 1901  
UNIVERSITY OF ILLINOIS.



# UNIVERSITY OF CALIFORNIA.

## BOARD OF REGENTS.

### EX OFFICIO REGENTS.

HIS EXCELLENCY R. W. WATERMAN,	- - -	SACRAMENTO.
<i>Governor, ex officio President of the Board.</i>		
HIS HONOR S. M. WHITE,	- - - - -	LOS ANGELES.
<i>Lieutenant-Governor.</i>		
HON. W. H. JORDAN,	- - - - -	OAKLAND.
<i>Speaker of the Assembly.</i>		
HON. IRA G. HOITT,	- - - - -	SACRAMENTO.
<i>State Superintendent of Public Instruction.</i>		
HON. L. U. SHIPPEE,	- - - - -	STOCKTON.
<i>President of the State Agricultural Society.</i>		
P. B. CORNWALL, Esq.,	- - - - -	SAN FRANCISCO.
<i>President of the Mechanics' Institute.</i>		
EDWARD S. HOLDEN, LL. D.,	- - - - -	SAN FRANCISCO.
<i>President of the University.</i>		

### APPOINTED REGENTS.

NAME.	ADDRESS.	TERM EXPIRES.
REV. HORATIO STEBBINS, D.D.,	1609 Larkin St., San Francisco,	- 1894
HON. JOHN S. HAGER, LL. D.,	Palace Hotel, San Francisco,	- 1894
HON. J. WEST MARTIN,	Oakland, - - - - -	- 1898
HON. JOHN F. SWIFT,	32 O'Farrell St., San Francisco,	- 1888
A. S. HALLIDIE, ESQ.,	329 Market St., San Francisco,	- 1892
HON. WILLIAM T. WALLACE,	799 Van Ness Avenue, San Francisco,	1902
JOHN L. BEARD, A.M.,	Centreville, - - - - -	- 1892
HON. A. L. RHODES,	430 California St., San Francisco,	- 1888
HON. T. GUY PHELPS,	Belmont, - - - - -	- 1896
I. W. HELLMAN, ESQ.,	Los Angeles, - - - - -	- 1902
GEORGE T. MARYE, JR., LL. B.,	234 Montgomery St., San Francisco	- 1898
ARTHUR ROGERS, A.B. Ph.B.,	309 Montgomery St., San Francisco	- 1890
GEORGE J. AINSWORTH, Ph.B.	North Temescal, - - - - -	- 1900
D. M. DELMAS, A.M.,	327 Pine St., San Francisco,	- 1900
ALBERT MILLER, ESQ.,	S. F. Savings Union, San Francisco	- 1890
COLUMBUS BARTLETT, ESQ.,	12 Montgomery St., San Francisco,	- 1896

J. H. C. BONTÉ, D.D., Secretary, Berkeley.

Regular meetings of the Board of Regents are held six times a year, viz., on the second Tuesday of September, November, January, March and May, and on the Tuesday preceding the last Wednesday in June.

# UNIVERSITY OF CALIFORNIA.

---

## MEDICAL DEPARTMENT.

### FACULTY.

- EDWARD S. HOLDEN, LL.D., President of the University.  
G. A. SHURTLEFF, M.D., Emeritus Professor of Mental Diseases and Medical Jurisprudence.  
M. W. FISH, M.D., Emeritus Professor of Physiology and Microscopy.  
R. BEVERLY COLE, A.M., M.D. M.R.C.S., Eng. Professor of Obstetrics and Gynecology.  
W. F. McNUTT, M.D., M.R.C.P. Edin., etc., Professor of Principles and Practice of Medicine.  
ROBERT A. McLEAN, M.D., Professor of Clinical and Operative Surgery, Dean.  
W. E. TAYLOR, M.D., Professor of Principles and Practice of Surgery.  
F. B. KANE, M.D., F.R.C.S.I., Professor of Clinical Medicine and Pathology.  
A. L. LENGFELD, M.D., Professor of Materia Medica and Medical Chemistry.  
WM. B. LEWITT, M.D., Professor of Anatomy.  
BENJ. R. SWAN, M.D., Professor of Diseases of Children.  
WM. H. MAYS, M.D., Professor of Mental Diseases and Medical Jurisprudence  
WASHINGTON AYER, M.D., Professor of Hygiene.  
GEORGE H. POWERS, A.M., M.D., Professor of Ophthalmology and Otology.  
WM. WATT KERR, A.M., M.B., C.M., Professor of Therapeutics.  
ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology and Microscopy.

- 
- DOUGLAS W. MONTGOMERY, M.D., Lecturer on Histology and Pathology, Curator.  
JOHN M. WILLIAMSON, M.D., Demonstrator of Anatomy.

- 
- WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.  
JULES SIMON, M.D., Assistant to the Chair of Mental Diseases and Medical Jurisprudence.  
HENRY L. TEVIS, M.D., Assistant Demonstrator of Anatomy.

---

### College Dispensary Staff.

- C. G. KENYON, M.D., Surgery.  
JULES SIMON, M.D., Nervous Diseases.  
LUKE ROBINSON, M.D., M.R.C.P., Eng., Diseases of Women.  
H. W. DODGE, M.D., Medicine.  
D. W. MONTGOMERY, M.D., Diseases of the Skin.

ROBERT A. McLEAN, M.D., Dean,  
603 Merchant Street, corner of Montgomery,  
San Francisco, Cal.

## CALENDAR.

---

THE PRELIMINARY TERM of 1888 will open on Monday, March 5th, and close on Saturday, May 12th.

THE REGULAR TERM will open on Monday, June 4th, and close on Wednesday, October 31st.

THE MATRICULATION EXAMINATION will be held at the College building on March 3rd and June 2nd.

THE DIDACTIC LECTURES are delivered at the College building, (Toland Hall), Stockton street, below Chestnut, San Francisco.

THE CLINICAL LECTURES are delivered at the City and County Hospital, Twenty-second street and Potrero avenue.

THE ANNUAL COMMENCEMENT for conferring the degree of Doctor of Medicine will be held early in November, in San Francisco.

## TWENTY-FIFTH ANNUAL COURSE OF INSTRUCTION.

---

### SESSION OF 1888.

The Medical Department of the University of California was organized in 1872, as an integral part of the State's Educational center. It was among the first to adopt the higher standard of Medical Education; having, as early as 1875, instituted a three years' course and graded studies, and in 1885 an examination for admission to the College.

The changes introduced into the curriculum of this school and now in force, may be summarized as follows:

1. *Increase of the time of study to three years.* Three regular courses of lectures of five months each, attended through three several years, are required before the student can present himself for graduation. Students are also required to attend the clinics regularly throughout the term, and senior students to attend the preliminary term.

2. *Yearly examinations.* At the beginning of each session, examinations are held to determine the progress of the student during the year past, his advancement depending on the result of such examinations.

3. *Graded studies.* By this arrangement the student is thoroughly drilled in the elementary subjects before proceeding higher. He is, however, expected to attend all the lectures, giving most of his hours of study to the subjects allotted to his own year.

The following are the subjects apportioned to each year's studies:

*First Year.* Anatomy, Physiology, Histology and Microscopy, Materia Medica and Medical Chemistry, Pharmacy, Dissections, Dispensary and Laboratory Work. Final Examinations at the end of the first year in Pharmacy and Laboratory Work.

*Second Year.* Anatomy, Physiology, Materia Medica and Medical Chemistry, Principles and Practice of Medicine, Principles and Practice of Surgery, Therapeutics, Histology and Pathology, Obstetrics, Clinical Medicine, Clinical Surgery, Hygiene, Dissections, Dispensary, Clinics. Final Examinations at the end of the second year in Physiology, Materia Medica and Medical Chemistry, Histology and Hygiene.

*Third Year.* Principles and Practice of Medicine, Principles and Practice of Surgery, Obstetrics and Gynecology, Therapeutics, Clinical Medicine and Pathology, Clinical Surgery, Mental Diseases and Medical Jurisprudence, Diseases of Children, Ophthalmology and Otology, Anatomy, Special Clinics.

Graduates of this College, and those holding certificates of attendance upon lectures, are credited for the full time of their medical studies by the Royal College of Surgeons of England, Royal College of Surgeons of Edinburgh, and the Faculty of Physicians and Surgeons of Glasgow.

## LOCATION.

While the several other Colleges of the State University are clustered at Berkeley, its Medical Department is, for obvious reasons, situated in San Francisco. The Medical College building, known as "Toland Hall," in honor of its illustrious founder, is one of the most complete and stately in the country. It is located near North Beach, overlooking the Golden Gate, a locality favoring the health and industrious habits of the students.

The Lecture Hall of the College is capable of seating five hundred persons; the Clinical Amphitheater is about equally as capacious; the Museum contains an extensive collection of specimens and preparations; the Dissecting Room is fitted up with all the modern improvements; the Laboratory is replete with all chemicals and apparatus necessary for practical teaching. A suite of apartments in the building is set apart for the Dispensary Clinics.

The College stands near the terminus of the Omnibus line of street cars, and the terminus of the North Beach and Mission line, is distant one block further.

---

## THE COLLEGIATE YEAR.

Contrary to the custom of Eastern Medical Colleges, the lectures in this school are delivered during the Spring and Summer months. The peculiar climate of San Francisco renders Spring and Summer far the preferable season for prosecuting the medical studies; hence, the sessions are held from March to November. During this period, and indeed largely throughout the other months of the year also, cool trade-winds blow across the city daily, moderating the temperature, and particularly favoring the study of practical anatomy and necroscopy. The student in this city enjoys rare natural advantages for the healthful pursuit of his labors, such a contingency at his detention from lectures or clinics by stress of weather being absolutely unknown.

The College year is divided into two terms: The Preliminary or Spring Term, and the Regular or Summer Term.

THE PRELIMINARY TERM commences March 5th, and ends May 12th. During this term, subjects are dwelt upon that do not receive their full meed of attention during the Regular Term. Clinics proceed at the Hospital and College as during the Regular Term. The Dissecting Room is open for practical work. All students are expected to attend this course, although such attendance is not compulsory, except to members of the senior class.

THE REGULAR TERM begins on Monday, June 4th, and terminates on Wednesday, October 31st. During this term, all the branches of medicine and surgery are taught, didactically and clinically. Regular clinics are held three days each week at City and County Hospital, where the Professors of the clinical chairs have charge of wards, and possess every advantage for the instruction of students; clinics are also held at the College Dispensary. Lectures are given daily by the Professors and evening recitations are held three times a week.



## METHODS OF INSTRUCTION.

---

The course of studies pursued at this school comprises Clinical, Didactic, and Laboratory teaching. Special prominence is given to the former, although it is endeavored that the three methods shall be so blended as to form one harmonious whole.

---

### CLINICAL TEACHING.

*In Clinical Teaching*, the plan pursued by the several Clinical Professors, has for its aim the actual confronting of the student with the phenomena of disease, that the senses of sight, hearing and touch may be trained to aid in forming a correct diagnosis.

The facilities for clinical studies open to the students of the University have been largely increased. Full access is given to the City and County Hospital, a complete and modern structure containing five hundred beds, and presenting for observation, perhaps, every known form of disease, including those peculiar to tropical and South America. The staff of the Hospital is largely drawn from the Faculty of the University, giving them unusual advantages for developing clinical material. The Professor of Clinical Surgery has charge of three surgical wards (thirty-two beds in each), the Professor of Clinical Medicine two wards, the Professor of Obstetrics and Gynecology, and the Professor of Ophthalmology, one ward each. Autopsies are conducted three times a week in the Mortuary by the Pathologist. A large operating theatre has been erected, where the major and minor operations of surgery are performed in view of the class. Operating days are Tuesday and Saturday. The Hospital is situated at the junction of Twenty-second street with Potrero Avenue, and is accessible from the North Beach and Mission cars, the Omnibus and the Mission street lines.

### HOSPITAL CLINICS.

**Clinical Surgery.**—Professor McLean delivers clinical lectures on Practical and Operative Surgery at the City and County Hospital, on Tuesdays, Thursdays and Saturdays, throughout the session. Especial attention is given, in a ward devoted to the purpose, to the conduct of disorders of the genito-urinary organs and venereal diseases. A course on Minor Surgery is also given. Instruction in this branch includes the application of bandages and the various dressings used in treating wounds, fractures, dislocations, etc.

**Clinical Medicine.**—Professors F. B. Kane and W. W. Kerr will deliver a course of lectures on Clinical Medicine at the same Hospital each Tuesday, Thursday and Saturday. The course of study will consist in the demonstration of cases illustrating the different phases and peculiarities which disease assumes, the examination of patients at the bedside by the student under the guidance of the Professor, together with instruction in all these details which qualify the student to discharge his duty agreeably and efficiently in the sick room.

Professor Kane will confine himself to clinical instruction in the diagnosis and treatment of nervous diseases, when every endeavor will be made to familiarize the student with the individual diseases and to give him practical instruction in the modern modes of treatment specially adapted to this class of cases.

Professor Kerr will direct the attention of the student to general medical diseases, exercise him in physical and differential diagnosis, and give him every opportunity of putting into practice the knowledge he has acquired from his didactic lectures.

**Gynecology and Practical Midwifery.**—Professor R. Beverly Cole holds a Thursday Clinic, including a course of instruction in Operative Gynecology, the use of instruments, appliances, etc. He will also devote a portion of his lectures to Clinical Midwifery, taking, as illustration, such cases of interest as may occur in the Lying-in ward from time to time. The senior students will each in rotation, have opportunities for the study of Practical Obstetrics at the bedside.

**Ophthalmology and Otology.**—Professor Powers will deliver one didactic lecture a week during the course, covering the subjects of Larynx, Pharynx, Naso-Pharynx and Nasal Cavities, Eye and Ear. These lectures will be illustrated by models, charts and blackboard drawings. He will also conduct two clinics a week at the City and County Hospital, where in addition to operative and severe cases, he has a large out-patient clinic, including many children, with ample illustrations of cases as they appear in daily practice. At these clinics the third year students are required in turn, to keep the record of the cases, with a view to cultivating a habit of case writing. Once in two weeks Professor Powers has an evening "Quiz" for the third year students, which is conducted in turn by the students themselves, under the personal supervision of the Professor.

#### COLLEGE DISPENSARY CLINICS.

The Faculty has organized a Free Dispensary Clinic, which is held at the College building on Monday, Wednesday and Friday at 3 P. M.

---

### DIDACTIC TEACHING.

---

A brief outline of the course pursued by the several departments will be found in the following summary :

**Surgery.**—Professor Taylor delivers two lectures each week on the art and science of surgery. The more recent views on the management of surgical conditions, and the appliances devised for their relief, are particularly dwelt upon, and illustrated with drawings and models when necessary. This course will include a series of lectures upon operative surgery, with demonstrations on the cadaver. The students will be drilled in the manipulation of instruments used in the various operations.

**Practice of Medicine.**—Professor McNutt presents in his lectures during this course the principles and practice of medicine in its modern aspects. He endeavors to give a description of the different diseases, their etiology, pathology, symptoms, diagnosis, prognosis, and treatment. The various pathological

changes are demonstrated by means of plates, preparations, and recent specimens of diseased parts.

**Obstetrics.**—The science and art of obstetrics are taught by Professor R. Beverly Cole. His lectures are fully illustrated by the use of colored plates and drawings, prepared specimens, and the manikin. The principal obstetric operations are performed on the cadaver in presence of the class.

**Physiology.**—The lectures in this department by Professor D'Ancona embrace a consideration of both general and special physiology, including all that has been developed up to the present time, and are illustrated by a complete series of colored drawings, prepared exclusively for these lectures. Besides which, the large collections of preparations and drawings of the Scientific Department at Berkeley are at the command of the Professor. Vivisections are practiced when necessary, and the use of the microscope fully taught.

**Therapeutics (Medical and Surgical).**—The lectures in this department, by Professor Kerr, will explain the physiological actions and therapeutic indications of all agents, medical and surgical, used for the cure, alleviation, or prevention of diseases. The action of drugs will be shown by practical demonstrations upon living animals.

**Materia Medica and Medical Chemistry.**—Professor A. L. Lengfeld, in his course, will deliver two lectures each week, devoting particular attention to that part of Materia Medica and Chemistry which pertains more particularly to practical medicine and pharmacy, and using for this purpose all necessary philosophical and chemical apparatus. Special attention will be given to Prescription Writing, Urine Analysis, and Toxicology, and to the nature, origin, physical and chemical properties of the various remedies official in the United States Pharmacopeia.

Dr. Winslow Anderson, assistant to the Chair of Materia Medica and Medical Chemistry, will deliver one lecture each week on Medical Physics, and will conduct the Laboratory investigations, including qualitative analysis and recitations at least three hours each week during the term.

**Anatomy.**—Professor Lewitt's lectures on Anatomy are illustrated by the cadaver, and by both wet and dry preparations, models, manikin and drawings, and include a course on general, special and topographical anatomy. The Dissecting Room is spacious, well ventilated, lighted from above, and provided with every convenience. It is open throughout the year, under the superintendence of the Professor and Demonstrator of Anatomy. A supply of material is always procurable at small cost. When dissections are conducted in a diligent manner, the student is furnished with certificates stating the amount and part dissected.

**Gynecology.**—This subject is taught didactically and clinically by Professor Cole. The use of gynecological instruments is carefully shown, and the several procedures explained by means of colored charts, diagrams and preparations.

**Hygiene.**—The importance now attaching to the science of Hygiene induced the Regents and Faculty to give it a place in the curriculum of the school. Dr. Washington Ayer has been appointed to fill the vacancy caused by the death of Dr. F. W. Hatch.

**Diseases of Children.**—Professor Swan will devote one hour each week to this subject, illustrating his lectures by notes drawn from an unusually large experience in the management of diseases peculiar to children.

**Mental Diseases.**—The lectures by Professor Mays, Superintendent of the State Asylum for the Insane, at Stockton, on this subject, aim to impart a practical acquaintance with the forms and manifestations of insanity. The causation and prophylaxis of mind disorders receive special consideration. A supplementary series of lectures is given by the Professor, on the *Medical Jurisprudence* of Insanity.

---

### HOSPITAL INTERNES.

The position of Interne in the City and County Hospital is open each December to three members of the graduating class who recommend themselves to the Faculty by their diligence and general fitness for the appointments. Internes receive their board and lodging for one year, and secure opportunities for accumulating an invaluable experience in every field of practical medicine and surgery.

---

## THE HIGHER STANDARD OF EDUCATION.

---

### REQUIREMENTS FOR ADMISSION.

In addition to the curriculum already instituted, namely, a three year's graded course of study, with yearly examinations ;

A matriculation examination is required in the following subjects :

1. ENGLISH.—A written composition, not to exceed one page foolscap in length, upon some subject connected with American history or biography.
2. ARITHMETIC.
3. GEOGRAPHY.
4. PHYSICS.

No matriculation examination will be required of candidates who have received a Collegiate Degree, or who have passed the examination for admission to, or are graduates of the College of Letters or of Science of the University of California, or who have passed the matriculation examination of any recognized college, or who present a certificate covering the required subjects from a recognized Normal or High School.

Students who have attended one full course in any recognized Medical College, will, upon satisfactory examination in the curriculum provided for the first year, be admitted as students of the *second course* in the University of California.

Students who have attended two courses in any recognized Medical College, will be admitted as students of the *third course* in this institution, on passing a satisfactory examination in the curriculum provided for the second year.

Graduates of other regular Medical Colleges in good standing, will be admitted as students of the *third course* in this institution without any examination.

Graduates of Pharmaceutical and Dental Colleges in good standing, are admitted to the second year without examination.

Theological and Law Students will be admitted to special lectures without examination.

The Matriculation examinations will be conducted at the College building on March 3d, and June 2d.



## REQUIREMENTS FOR GRADUATION.

I. The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years, and be of good moral character.

II. He must have studied medicine three full years, and must have attended three regular courses of lectures, the last of which must have been that of the University of California.

III. He must have passed the required examinations, written and oral.

IV. He must have pursued the study of practical anatomy during at least two sessions, and must present certificates of having dissected every part of the cadaver.

V. He must have paid in full the College fees, including the graduation fee.

## BOARDING.

The expense of living in San Francisco is not great. Good board, with room rent, may now be procured at the low rate of five dollars per week, at a convenient distance from the College building. Students from a distance may learn the address of these boarding houses, and other information, by calling on the Dean of the Faculty, Dr. R. A. McLean, 603 Merchant Street, corner of Montgomery.

## FEES.

Matriculation Fee (paid but once).....	\$ 5
Demonstrator's Ticket.....	10
Fee for the First Course of Lectures.....	130
Fee for the Second Course of Lectures.....	130
No Fee is required for the Third course of Lectures.	
Graduating Fee.....	40

Students who have already attended two full courses of lectures in other regular schools, and graduates of other regular schools who will be of less than three years' standing at the end of a given session, are admitted to the full course of lectures of such session (not including practical anatomy) on the payment of the matriculation fee and sixty-five dollars.

Graduates of other regular schools who will be of three years' standing at the end of a given session are admitted to all the didactic and clinical lectures of such session on payment of the matriculation fee only.

## TEXT-BOOKS AND WORKS OF REFERENCE.

ANATOMY—Gray, Holden, Weisse, Quain, Ford's Questions.

PHYSIOLOGY—Dalton, Flint, Foster.

CHEMISTRY—Lloyd's Chemistry of Medicines, Bartley, Witthaus.

HISTOLOGY—Rindfliesch, Stricker.

SURGERY—Ashurst, Bryant, Agnew, Toland, Erichsen.

PRACTICE OF MEDICINE—Roberts, Reynolds, Neimeyer.

CLINICAL MEDICINE—Da Costa, Hartshorne, Flint.

MIDWIFERY—Leishman, Playfair, Bedford, Lusk.

GYNECOLOGY—Thomas, Emmet, Sims.



MATERIA MÉDICA—United States Pharmacopœia, Dispensatories (U. S. and National).

THERAPEUTICS—Wood, Bartholow, Ringer.

OPHTHALMOLOGY—Williams, Wells.

OTOLOGY—Roosa, Burnett.

RHINOSCOPY—Robinson, McKenzie.

PEDIATRICS—Lewis Smith, Meigs and Pepper, Eustace Smith.

DERMATOLOGY—Fox, Neumann, Duhring.

MENTAL DISEASES AND MEDICAL JURISPRUDENCE—Maudsley, Bucknell and Tuke, Reese, Taylor.

PATHOLOGY—Wagner, Delafield, Coates.

LARYNGOLOGY—McKenzie, Cohen.

PRESCRIPTION WRITING—Mann, Gerrish.

URINE ANALYSIS—Legge, Hoffmann and Ultzmann.

#### GRADUATES—1887.

Cluness, William R. Jr .....	Sacramento, California
Cook, Frank S. ....	Tucson, Arizona
Fottrell, Michael J. ....	San Francisco, California
Glaze, George I. ....	Saratoga, Kansas
Howard, William B. ....	Modesto, California
Kirchhoffer, Frederick. ....	San Francisco, California
Kobayashi, Sankio. ....	Japan
Mays, Arthur H. ....	Stockton, California
McLean, John T. ....	Modesto, California
Morrill, Augustus L. ....	Colima, Mexico
Park, Theorilda C. ....	San Francisco, California
Reardon, William E. ....	San Francisco, California
Shannon, James. ....	San Francisco, California
Tevis, Henry L. ....	San Francisco, California
Watanabe, Tey. ....	Japan
Williams, Robert B. ....	San Francisco, California

#### MATRICULANTS—1887.

Albee, Daniel. ....	Eureka, California
Alexander, Rova E. ....	Albany, Oregon
Atwater, Charlotte. ....	Oakland, California
Barbat, J. H., Ph. G. ....	San Francisco, California
*Bissett, Edward T. ....	Cleveland, Ohio
Bond, Frederick T. ....	Vallejo, California
Callahan, Felix A. ....	Sacramento, California
Cox, Rosamond L. ....	San Francisco, California
Dennis, Nathan P. ....	San Francisco, California
Dunn, James P. H., B. S. ....	Berkeley, California
Eastlake, W. B. de Lano. ....	San Francisco, California
Estes, Melvin B. ....	San Francisco, California
Foreman, Francesca I. ....	San Francisco, California
Frick, Euclid B. ....	San Francisco, California
Garcia, Frank H. ....	San Leandro, California
Gordon, Samuel B. ....	Monterey, California

Happersberger, A. K., A. B.	San Francisco, California
Holmes, Edward R.	Walla Walla, Washington Territory
Haraszthy, Carlos	San Francisco, California
Haskin, William H.	San Francisco, California
Hawkins, William J.	San Francisco, California
Iredale, Charles W.	San Francisco, California
Johnson, Rena	San Francisco, California
Jones, O. W.	San Francisco, California
Kelly, John L.	Lewiston, Idaho Territory
Larkey, Frank X.	San Francisco, California
Lezinsky, David L.	San Francisco, California
Lyle, Martha	San Francisco, California
Macinnis, Martin B.	Prince Edwards Island, Canada
Marx, Frances R.	San Francisco, California
Mather, Squire R.	Kelseyville, California
Mayer, Oscar J.	San Francisco, California
Mish, Solomon C.	San Francisco, California
Moore, Frank E.	San Francisco, California
Noble, J. Albert	San Francisco, California
O'Brien, Aloysius	Port Townsend, Washington Territory
O'Donnell, George W.	San Francisco, California
Parrish, Henry L.	Oakland, California
Quigley, John M.	San Francisco, California
Samuels, H. G.	San Francisco, California
Schmidt, Theodor P.	Alameda, California
*Sheehy, James W., B. S.	San Francisco, California
Smith, Henry P.	San Francisco, California
Swift, Sidney B., M. D.	San Francisco, California
Waxon, Joseph	Sacramento, California
White, James F.	Oakland, California
Zeyn, Gustavus	Anaheim, California

---

### SUMMARY.

Graduates 1887	16
Under graduates 1887	47
Total	63

---

### COMPLETE LIST OF GRADUATES.

Addington, D. M.	Michigan Bar, California	1879
Allen, Edward O.	New York, N. Y.	1875
Anderson, J. A.	Kansas	1873
Anderson, Winslow	San Francisco, California	1884
Armistead, Howell V.	Modesto, California	1885
Baldwin, Robert O.	Danville, California	1885
Barber, Edward T.	Eel River, California	1866
Bates, Charles B.	Oroville, California	1868

---

\* Deceased.

Bates, Walter E .....	Oakland, California .....	1881
Beardsley, E. M. ....	San Francisco, California .....	1881
Beaumeister, B. H. ....	San Francisco, California .....	1882
Beede, William M. S. ....	Bakersfield, California .....	1884
Benedict, C. W. ....	Virginia .....	1875
Bettelheim, A. F. ....	San Francisco, California .....	1880
Biggs, F. P. ....	Valparaiso .....	1874
Blake, Chas. M. ....	San Francisco, California .....	1876
Blake, James W. ....	San Francisco, California .....	1874
Bordé, Henry J. ....	San Jose, California .....	1883
Bradbury, Geo. F. ....	San Francisco, California .....	1878
Brannan, J. J. ....	Berkeley, California .....	1876
Brierly, Conant B. ....	San Francisco, California .....	1876
Briggs, M. W. ....	Santa Barbara, California .....	1870
Bromly, R. I. ....	Oakland, California .....	1878
Brown, Ernest S. ....	San Francisco, California .....	1886
Brown, Geo. J. ....	Biggs Station, California .....	1876
Bruns, W. C. ....	San Francisco, California .....	1878
Buckley, Vincent P. ....	San Francisco, California .....	1884
Burchard, L. S. ....	Oakland, California .....	1882
Cairns, John C. ....	San Francisco, California .....	1876
Calbreath, John F. ....	Weston, Virginia .....	1875
Caldwell, H. H. ....	San José, California .....	1880
Caldwell, Robert .....	San José, California .....	1869
Callaghan, D. T. ....	Grand Gulf, Mississippi .....	1873
Cameron, James S. ....	San Francisco, California .....	1868
Chaigneau, V. A. ....	San Francisco, California .....	1876
Churchill, Leonard .....	San Francisco, California .....	1871
Chalmers, Wm. P. ....	Watsonville, California .....	1886
Clark, J. J. ....	San Francisco, California .....	1869
Clark, Wm. D. ....	San Francisco, California .....	1884
Clinton, C. A. ....	San Francisco, California .....	1881
Cluness, Wm. R., Jr. ....	Sacramento, California .....	1887
Cochran, W. A. ....	San Francisco, California .....	1869
Conlan, Wm. E. ....	San Francisco, California .....	1886
Collins, Addison C. ....	Davisville, California .....	1885
Connolly, John J. ....	San Francisco, California .....	1878
Connolly, Thos. E. ....	Vallejo, California .....	1884
Cook, Frank S. ....	Tucson, Arizona .....	1887
Corbett, S. J. ....	San Francisco, California .....	1868
Cox, Thos. H. ....	San Francisco, California .....	1873
Curran, Mary K. ....	San Francisco, California .....	1878
Damour, Ferdinand. ....	San Francisco, California .....	1864
D'Ancona, Arnold A., A. B. ....	San Francisco, California .....	1884
Davie, J. C. Jr. ....	Victoria, Vancouver's Island .....	1864
Davidson, Joseph R. ....	Salem, Oregon .....	1875
Dawson, Alson .....	New York, New York .....	1875
Day, John G. ....	San Francisco, California .....	1884
Dean, Andrew J. ....	San Francisco, California .....	1881
Delmont, Francois. ....	San Buenaventura, California .....	1874

Depuy, Anson A. ....	San Francisco, California .....	1881
Dodge, Henry W. ....	San Francisco, California .....	1884
Downs, George W. ....	Vallejo, California .....	1879
Drinkhouse, E. J. C. ....	San Francisco, California .....	1865
Dubois, A. L. ....	Lincoln, California .....	1864
Duncan, S. C. ....	Vallejo, California .....	1877
Enright, Chas. M., A. B. ....	Santa Clara, California .....	1884
Evans, C. W. ....	Modesto, California .....	1881
Fenn, C. N. ....	San Francisco, California .....	1865
Fine, Andrew. ....	San Jose, California .....	1866
Foote, Gilbert. ....	Lakeford, California .....	1879
Fottrell, Micheal, J. ....	San Francisco, California .....	1887
Foulkes, J. F. Jr. ....	Oakland, California .....	1880
Frost, Joseph. ....	Vallejo, California .....	1877
Gale, Herbert A. ....	Sacramento, California .....	1879
Gallwey, John. ....	San Francisco, California .....	1885
Gates, Frank H. ....	San Francisco, California .....	1884
Gilham, G. W. ....	Oakland, Oregon .....	1881
Glaze, George I. ....	Saratoga, Kansas .....	1887
Grattan, E. L. ....	San Francisco, California .....	1881
Gros, Edward. ....	San Francisco, California .....	1865
Guilenard, A. J. ....	San Francisco, California .....	1878
Hackett, John. ....	San Francisco, California .....	1867
Haile, C. S. ....	Alameda, California .....	1869
Hampton, James E. ....	San Francisco, California .....	1871
Handy, J. C. ....	San Francisco, California .....	1864
Hansen, Thomas C. ....	San Francisco, California .....	1867
Harmon, R. ....	Oakland, Oregon .....	1879
Harris, Thomas W. ....	Russellville, Indiana .....	1875
Heavitt, Granville. ....	San Francisco, California .....	1866
Heinimann, J. M. ....	San Francisco, California .....	1877
Hicks, Young E. ....	Merced, California .....	1874
Hodgdon, W. H. A. ....	San Francisco, California .....	1876
Hook, Walter E. ....	Walnut Creek, California .....	1876
Hopkins, T. P. ....	San Francisco, California .....	1880
Howard, Katherine I. ....	San Francisco, California .....	1882
Howard, Wm. B. ....	Modesto, California .....	1887
Howell, H. H. ....	Knight's Ferry, California .....	1879
Hughes, Jerome A. ....	San Francisco, California .....	1883
Hughes, L. J. ....	San Francisco, California .....	1879
Johnstone, A. ....	San Francisco, California .....	1879
Josephi, Simon E. ....	East Portland, Oregon .....	1877
Keane, George B. ....	San Francisco, California .....	1872
Kingsley, Thomas H. ....	San Francisco, California .....	1886
Kirchhoffer, Frederick. ....	San Francisco, California .....	1887
Kirkpatrick, C. A. ....	Redwood City, California .....	1871
Kirkwood, J. W. ....	Salem, Oregon .....	1876
Kobayashi, Sankio. ....	Japan .....	1887
Kosbue, A. Emil. ....	Hamburg, Germany .....	1875
Kurtz, Joseph. ....	Los Angeles, California .....	1875



Laidlaw, Horace.....	Oakland, California.....	1880
Le Fevre, J. P.....	Plumas County, California.....	1881
Lewitt, F. A.....	San Francisco, California.....	1878
Lindenberger, W. H.....	Bartlett Springs, California.....	1876
Lingo, Marin B.....	Salem, Oregon.....	1866
Lonigo, Emile V.....	San Francisco, California.....	1883
Lord, Franklin F.....	San Francisco, California.....	1880
Lovett, Wm. B.....	Oakland, California.....	1883
Lunborg, Gustaf W.....	San Francisco, California.....	1883
Lustig, Daniel D., Ph.G.....	San Francisco, California.....	1885
Lyford, L. Dexter.....	San Francisco, California.....	1872
Mackenzie, J. H.....	Edinburg, Scotland.....	1870
Martineaut, E. D.....	San Francisco, California.....	1873
Mason, Benjamin F.....	San Francisco, California.....	1875
Matthewson, J. M.....	San Francisco, California.....	1882
Mays, Arthur H.....	Stockton California.....	1887
Mays, Wm. H.....	San Francisco, California.....	1873
McColl, G. F.....	East Portland, Oregon.....	1877
McCormack, Herbert F., A. B.....	St. Helena, California.....	1876
McCoy, Juan W.....	Bell's Ridge, California.....	1884
McDermott, Wm. P.....	San Francisco, California.....	1874
McDonald, J. J.....	San Francisco, California.....	1877
McGuire, Lucius.....	San Francisco, California.....	1868
McLaughlin, M. A.....	San Francisco, California.....	1878
McLean, John T.....	Modesto, California.....	1887
McLean, Robert A.....	Modesto, California.....	1874
Mervy, Emile C.....	San Francisco, California.....	1883
Merritt, T. W.....	San Francisco, California.....	1882
Meyers, R. C.....	San Francisco, California.....	1880
Miller, Chas. F.....	San Francisco, California.....	1874
Miller, John A.....	San Francisco, California.....	1875
Minor, John F.....	San Francisco, California.....	1876
Moody, Mary F.....	San Francisco, California.....	1882
Morgan, F. E.....	Santa Cruz, California.....	1881
Morrill, Augustus L.....	Colima, Mexico.....	1887
Mueller, H. E.....	Brooklyn, California.....	1880
Muenter, Henry.....	Stockton, California.....	1882
Newmark, Valentine.....	San Francisco, California.....	1868
Nichols, Theodore A.....	Mission San Jose, California.....	1885
Nottage, George E.....	Stockton, California.....	1874
Nuttall, George H. F.....	San Francisco, California.....	1884
Olds, Wm. H.....	San Francisco, California.....	1881
O'Neill, A. A.....	San Francisco, California.....	1867
O'Neill, J. C.....	Vallejo, California.....	1873
Oster, Chas.....	Oakland, Oregon.....	1878
Park, Theorilda C.....	San Francisco, California.....	1887
Partsch, Herman.....	San Francisco, California.....	1884
Paton, Chas. J.....	San Francisco, California.....	1883
Patterson, T. J.....	Visalia, California.....	1882
Payne, J. R.....	San Francisco, California.....	1882



Perrault, Edward L.....	San Francisco, California.....	1885
Pescia, Joseph.....	San Francisco, California.....	1877
Plant, Benj. A.....	Sacramento, California.....	1886
Plummer, Richard H.....	Yolo, California.....	1866
Pond, Henry M.....	San Francisco, California.....	1886
Pond, W. B.....	San Francisco, California.....	1864
Pope, Horace E.....	San Francisco, California.....	1876
Powell, J. M.....	Mammoth, Oregon.....	1876
Pressley, J. B.....	Santa Rosa, California.....	1882
Prevost, J. Renny.....	San Jose, California.....	1866
Pruett, J. A.....	Pendleton, Oregon.....	1878
Quinlan, Albert P.....	San Francisco, California.....	1876
Reardon, T. B.....	Oroville, California.....	1882
Reardon, Wm. E.....	San Francisco, California.....	1887
Reed, Clarence E.....	Placerville, California.....	1883
Reich, George A.....	San Francisco, California.....	1877
Reynolds, George E.....	San Francisco, California.....	1877
Richardson, J. A.....	Amity, Oregon.....	1866
Riley, J. S.....	Vallejo, California.....	1883
Robertson, John W.....	San Francisco, California.....	1880
Robinson, Luke.....	Petaluma, California.....	1867
Rorke, James.....	San Francisco, California.....	1876
Rucker, H. N.....	Santa Clara, California.....	1870
Rupe, Samuel H.....	Healdsburg, California.....	1866
Sabey, L. A.....	San Francisco, California.....	1880
Sage, C. T.....	San Francisco, California.....	1870
Sawyer, H. C.....	San Francisco, California.....	1781
Schellhous, E. J.....	Huron County, Ohio.....	1875
Schnabel, Martin.....	Newcastle.....	1873
Scholl, Albert L., Ph.G.....	San Francisco, California.....	1884
Scott, Arthur W.....	San Francisco, California.....	1879
Seavey, L. T.....	Port Townsend, W. T.....	1878
Seawell, John L.....	Healdsburg, California.....	1870
Seawell, Thomas H.....	Healdsburg, California.....	1876
Sellon, Anna F.....	San Francisco, California.....	1881
Senter, E. S.....	San Jose, California.....	1882
Shannon, James.....	San Francisco, California.....	1887
Sheets, John H.....	Phoenix, Arizona Territory.....	1881
Shelton, Thos. W.....	Salem, Oregon.....	1867
Sherman, Elenora S.....	San Francisco, California.....	1884
Shuey, Sarah I.....	East Oakland, California.....	1878
Sichel, Gust. W.....	San Francisco, California.....	1876
Simon, Jules A.....	Paris, France.....	1875
Soboslay, Julius.....	San Francisco, California.....	1886
Smith, George S.....	San Francisco, California.....	1879
Smith, T. H.....	Eureka, California.....	1876
Smith, Wm P.....	Salem, Oregon.....	1875
Sparks, Agnes.....	San Francisco, California.....	1879
Stanton, James.....	San Francisco, California.....	1882
Steely, John.....	Kirbyville, Oregon.....	1867

Stevenson, J. R.....	San Francisco, California.....	1877
Stewart, J. M.....	San Francisco, California.....	1882
Stivers, C. A.....	San Francisco, California.....	1864
Summers, G. M.....	Sonora, California.....	1876
Summers, John F.....	San Francisco, California.....	1878
Sutro, Emma L.....	San Francisco, California.....	1881
Swann, Charles M.....	San Francisco, California.....	1875
Swisher, J. R.....	Danville, Illinois.....	1877
Tartar, A. P.....	Tehama, California.....	1882
Taylor, Edward R.....	San Francisco, California.....	1865
Tevis, Henry L.....	San Francisco, California.....	1887
Toland, Charles A.....	San Francisco, California.....	1869
Turner, J. T.....	Mariposa, California.....	1869
Tuttle, H. P.....	Castroville, California.....	1869
Urban, Kurt.....	San Francisco, California.....	1883
Voigt, W. C.....	San Francisco, California.....	1879
Von Buelo, F.....	San Francisco, California.....	1877
Walz, G.....	San Francisco, California.....	1868
Wanzer, L. M. F.....	San Francisco, California.....	1876
Watanabe, Tey.....	Japan.....	1887
Waters, John W.....	Carson City, Nevada.....	1874
Webber, J. S.....	Sierra County, California.....	1869
Weeks, F. L.....	San Francisco, California.....	1864
Wheaton, S. P.....	Oakland, California.....	1877
Whittell, A. P.....	San Francisco, California.....	1873
Weiss, E. M.....	San Francisco, California.....	1877
Welch, W. P.....	San Francisco, California.....	1864
Wickman, Wm. J.....	San Francisco, California.....	1883
Widney, J. P.....	Santa Clara, California.....	1867
Wilcox, Wilber J.....	Oakland, California.....	1885
Williams, Robert B.....	San Francisco, California.....	1887
Williamson, John M.....	Vallejo, California.....	1885
Williamson, W. T.....	East Portland, Oregon.....	1877
Wilson, Kemlo R. McD.....	San Francisco, California.....	1886
Winton, Henry N.....	Haywards, California.....	1885
Woods, W. E. Josephine.....	San Francisco, California.....	1885
Wooster, David.....	San Francisco, California.....	1885
Young, Junius D.....	Stockton, California.....	1881
Younger, Alex J.....	San Francisco, California.....	1869
Younger, Edward A.....	San Francisco, California.....	1879
Total.....		247.

## THE ALUMNI ASSOCIATION.

---

The Alumni Association of the Medical Department of the University of California now includes in its membership most of the graduates of the institution, and the officers for the ensuing year take pleasure in announcing a prosperous outlook for the Association.

The objects of the Society are the promotion of the prosperity of our *Alma Mater*, the maintenance and cultivation of fraternal feeling among the Alumni, and the advancement of the interests of medical education and the diffusion of scientific knowledge.

Any alumnus of the Medical Department of the University, in good professional standing, is eligible to membership upon the payment of the initiation fee of five dollars, which entitles the applicant to a certificate of membership, signed by the President, Vice-President, Secretary and Executive Committee.

A life membership and certificate may be obtained by any eligible alumnus upon the payment of twenty dollars.

The Professors and Teachers in the Medical Department are entitled to honorary membership with an appropriate certificate.

The meetings during 1888 will be held monthly, at the residences of the members residing in San Francisco, and the annual meeting will be held in a public hall the early part of November. At these meetings, medical and scientific topics will be brought up for discussion and all present asked to participate.

Papers and reports of special cases are solicited from members outside of the city or abroad.

The annual banquet will be given the evening following the commencement exercises of the College.

The following officers have been elected for 1888:

L. M. F. Wanzer, M. D., President.

Francois Delmont, M. D., Vice-President.

Winslow Anderson, M. D., Secretary.

K. I. Howard, M. D., Treasurer.

### *Executive Committee:*

James W. Blake, M. D.

Jules Simon, M. D.

M. W. Moody, M. D.

All alumni are cordially invited to identify themselves with the Association and assist in the promotion of its welfare.

For further particulars address the Secretary of the Association—

WINSLOW ANDERSON, M. D.,  
No. 829 Broadway St.,  
San Francisco, Cal.

## UNIVERSITY OF CALIFORNIA.

## ACADEMIC SENATE.

NOTE.—Divided into groups of Professors, Assistant Professors, Instructors, Lecturers and Assistants, and arranged alphabetically in each group.

The Faculties of the University, together with the Instructors, constitute, by law, the Academic Senate.

EDWARD SINGLETON HOLDEN, LL.D., PRESIDENT., 120 Sutter Street,  
San Francisco.

*President of the University and Director of the Lick Observatory.*

JOHN H. C. BONTÉ, D.D., SECRETARY. - - University Grounds.  
*Professor of Legal Ethics.*

WASHINGTON AYER, M.D., - - 410 Kearny Street, San Francisco.  
*Professor of Hygiene.*

HANS HERMANN BEHR, M.D., - 509 Kearny Street, San Francisco.  
*Professor of Botany in the College of Pharmacy.*

GEORGE WOODBURY BUNNELL, A.M., 1955 Telegraph Avenue, Oakland.  
*Professor of the Greek Language and Literature.*

SAMUEL BENEDICT CHRISTY, PH.B., Piedmont Avenue, near Bancroft  
Way, Berkeley.  
*Professor of Mining and Metallurgy.*

R. BEVERLY COLE, A.M., M.D., M.R.C.S., ENG., 723 Sutter Street, San  
Francisco.  
*Professor of Obstetrics and Gynecology.*

ALBERT STANBURROUGH COOK, PH.D., Corner Dwight Way and Au-  
dubon Street, Berkeley.  
*Professor of the English Language and Literature.*

ARNOLD ABRAHAM D'ANCONA, A.B., M.D., 1408 Howard Street, San  
Francisco.  
*Professor of Physiology and Microscopy.*

GEORGE DAVIDSON, PH.D., - 1117 Hyde Street, San Francisco.  
*Honorary Professor of Geodesy and Astronomy.*

SAMUEL WILLIAM DENNIS, M.D., D.D.S., F.R.M.S., 809 Market Street,  
San Francisco.  
*Professor of Operative Dentistry and Dental Histology.*

STEPHEN J. FIELD, LL.D., - - - - Washington, D. C.  
*Honorary Professor of Law.*

MELANCTHON WILLIAMS FISH, M.D., 461 East Fourteenth Street,  
Oakland.  
*Emeritus Professor of Physiology and Microscopy.*

CLARK LAMOTTE GODDARD, A.M., D.D.S., 131 Post Street, San Francisco.

*Professor of Mechanical Dentistry, and Dean of the Dental Faculty.*

FREDERICK A. GRAZER, PH.G., - 113 Fulton Street, San Francisco.  
*Professor of Materia Medica in the College of Pharmacy*

GEORGE F. E. HARRISON, 1st Lieut. Second U. S. Artillery, - Sausalito.  
*Professor of Military Science and Tactics.*

SERRANNO CLINTON HASTINGS, LL.D., 636 Clay Street, San Francisco.  
*Professor of Comparative Jurisprudence.*

FREDERICK GODFREY HESSE, - - - P. O. Box 256, Oakland.  
*Professor of Mechanical Engineering.*

EUGENE WALDEMAR HILGARD, PH.D., LL.D., Bancroft Way, near Audubon Street, Berkeley.  
*Professor of Ariculture, Agricultural Chemistry, General and Economic Botany.*

GEORGE HOLMES HOWISON, LL.D., Corner Piedmont Avenue and Charming Way, Berkeley.  
*Mills Professor of Intellectual and Moral Philosophy and Civil Polity.*

ABRAHAM WENDELL JACKSON, JR., PH.B., Fourth University Cottage, Berkeley.  
*Professrr of Minerology, Petrography and Economic Geology.*

F. B. KANE, M.D., M.R.C.S.I., - - 46 O'Farrell Street, San Francisco.  
*Professor of Clinical Medicine and Pathology.*

MARTIN KELLOGG, A.M., - Bushnell Street, near College Way, Berkeley.  
*Professor of the Latin Language and Literature.*

W. WATT KERR, A.M., M.B., C.M., - - 522 Sutter Street, San Francisco,  
*Professor of Therapeutics.*

JOHN LRCONTE, MD., LL.D., Corner Dwight Way and Mark Street, Berkeley.  
*Professor of Physics.*

JOSEPH LeCONTE, M.D., LL.D., Bancroft Way, near Piedmont Avenue, Berkeley.  
*Professor of Geology and Natural History.*

ABRAHAM LEWIS LENGFELD, M.D., Corner Market and Powell Streets, San Francisco.  
*Professor of Materia Medica and Medical Chemistry.*

WILLIAM BREAKEY LEWITT, M.D., 605 Laguna Street, San Francisco.  
*Professor of Anatomy.*

WILLIAM H. MAYS, M.D., - - - - - Stockton.  
*Professor of Mental Diseases and Medical Jurisprudence.*

ROBERT A. McLEAN, M.D., - - - 603 Merchant Street, San Francisco.  
*Professor of Clinical and Operative Surgery, and Dean of the Medical Faculty.*



W. F. McNUTT, M. D., M.R.C.S., L.R.C.P., EDIN., 405 Montgomery Street,  
San Francisco.

*Professor of the Principles and Practice of Medicine.*

BERNARD MOSES, PH.D., Corner of Bancroft Way and Piedmont Avenue,  
Berkeley.

*Professor of History and Political Economy.*

GEORGE HERMAN POWERS, A.M., M.D., 215 Geary Street, San  
Francisco.

*Professor of Ophthalmology and Otology.*

ALBIN PUTZKER, - Corner Humboldt Avenue and Parker Street, Berkeley.

*Professor of the German Language and Literature.*

WILLARD BRADLEY RISING, M.E. PH.D., Corner Allston Way and  
Chapel Street, Berkeley.

*Professor of Chemistry.*

EDWARD WHEELOCK RUNYON, PH.G., 529 Market Street, San Francisco.

*Professor of the Theory and Practice of Pharmacy, and Dean of the Pharmaceutical  
Faculty.*

GEORGE AUGUSTUS SHURTLEFF, M.D., - - - Stockton.

*Emeritus Professor of Mental Diseases and Medical Jurisprudence.*

CHARLES WILLIAM SLACK, PH.B, LL.B., 320 California Street, San  
Francisco.

*Acting Professor of Municipal Law.*

FRANK SOULE (United States Military Academy), 960 Oak Street, Oakland.

*Professor of Civil Engineering and Astronomy.*

IRVING STRINGHAM, PH.D., Corner of Piedmont Avenue and Bancroft Way  
Berkeley.

*Professor of Mathematics, Dean of the College of Letters and of the Colleges of  
Science.*

MAURICE JAMES SULLIVAN, D.D.S., - 30 Post Street, San Francisco.

*Professor of Dental Pathology and Therapeutics.*

BENJAMIN RALPH SWAN, M.D., - 310 Stockton Street, San Francisco.

*Professor of Diseases of Children.*

WILLIAM EDWIN TAYLOR, M.D., - 215 Geary Street, San Francisco.

*Professor of the Principles and Practice of Surgery.*

WILLIAM THEODORE WENZELL, M.D., PH.G., PH.M., 532 Market  
Street, San Francisco.

*Professor of Chemistry in the College of Pharmacy.*

———, Agassiz Professor of Oriental Languages and Literature.

———, Professor of Municipal Law.

CORNELIUS BEACH BRADLEY, A.M., 608 Eighteenth Street, Oakland.

*Assistant Professor of the English Language and Literature.*

JOHN BERNARD CLARKE, PH.B., - 1736 Thirteenth Street, Oakland.  
*Assistant Professor of Mathematics.*

GEORGE CUNNINGHAM EDWARDS, PH.B., 1568 Webster Street, Oakland.  
*Assistant Professor of Mathematics.*

EDWARD LEE GREENE, PH.B., - Third University Cottage, Berkeley.  
*Assistant Professor of Botany.*

WILLIAM CAREY JONES, A.M., Bancroft Way, near Dana Street, Berkeley.  
*Assistant Professor of History, and Instructor in Constitutional and Roman Law.*

FREDERICK SLATE, B.S., Audubon Street, near Bancroft Way, Berkeley.  
*Assistant Professor of Physics and Mechanics.*

WILLIAM WHITE DEAMER, A.B., - 523 Seventeenth Street, Oakland.  
*Instructor in Latin and Recorder of the Faculties.*

HERMANN KOWER, C.E., - - - - - Fruit Vale.  
*Instructor in Instrumental Drawing.*

CHARLES HERBERT LEVERMORE, PH.D., Durant Avenue, near Bowditch Street, Berkeley.  
*Instructor in History.*

EDMOND CHARLES O'NEILL, PH.B., - 1403 Chestnut Street, Oakland.  
*Instructor in Chemistry.*

FELICIEN VICTOR PAGET, B.S., B.L., 813 Hyde Street, San Francisco.  
*Instructor in the French and Spanish Languages.*

WILLIAM GALT RAYMOND, C.E., Channing Way, near Fulton Street, Berkeley.  
*Instructor in Civil Engineering.*

JOACHIM HENRY SENGER, A.B., - 2122 Steiner Street, San Francisco.  
*Instructor in German and Greek.*

FRANCIS HOVEY STODDARD, A.M., - - - - - Berkeley.  
*Instructor in English.*

DOUGLASS WILLIAM MONTGOMERY, M. D. - - - - -  
*Lecturer on Histology and Pathology, and Curator.*

EDWARD JAMES WICKSON, A.M., Atherton Street, near Bancroft Way, Berkeley.  
*Lecturer on Practical Agriculture, and Assistant Superintendent of the Experimental Grounds.*

JAMES P. HAMPSTON DUNN, B.S., - - - - - Claremont.  
*Assistant in Chemistry.*

# UNIVERSITY OF CALIFORNIA.

## DENTAL DEPARTMENT.

STOCKTON STREET, BETWEEN CHESTNUT AND FRANCISCO.

---

### FACULTY.

EDWARD S. HOLDEN, A.M. LL.D., President of the University, and ex-officio President of the Faculty.  
JOSEPH LECONTE, M.D., LL.D., Honorary Professor of Biology.  
S. W. DENNIS, M.D., D.D.S., Professor of the Principles and Practice of Operative Dentistry, and Dental Histology.  
C. L. GODDARD, A.M., D.D.S., Professor of Mechanical Dentistry.  
A. L. LENGFELD, M.D., Professor of Materia Medica, and Medical Chemistry.  
W. E. TAYLOR, M.D., Professor of the Principles and Practice of Surgery.  
WM. B. LEWITT, M.D., Professor of Anatomy.  
MAURICE J. SULLIVAN, D.D.S., Professor of Pathology and Therapeutics.  
ARNOLD A. D'ANCONA, A.B., M.D., Professor of Physiology.

---

### DEMONSTRATORS.

———, Demonstrator of Operative Dentistry.  
CHARLES BOXTON, D.D.S., MILTON GABBS, D.D.S., Demonstrators of Mechanical Dentistry.  
JOHN M. WILLIAMSON, M.D., Demonstrator of Anatomy.  
WINSLOW ANDERSON, M.D., Assistant to the Chair of Materia Medica and Medical Chemistry.  
HENRY L. TEVIS, M.D., Assistant Demonstrator of Anatomy.

---

### CLINICAL INSTRUCTORS.

H. C. DAVIS, L.D.S.	H. J. PLOMTEAUX, D.D.S.
L. L. DUNBAR, D.D.S.	W. E. PRICE, D.D.S.
B. W. HAINES, M.D., D.D.S.	JNO. RABE, D.D.S.
C. W. HIBBARD, D.D.S.	MAX. SICHEL.
W. B. KINGSBURY.	F. J. SAXE, A.M., D.D.S.
A. F. McLAIN, M.D., D.D.S.	WILLIAM WOOD.
THOS. MORFFEY, D.D.S.	

---

The session of 1883 begins March 5th, and ends November 30th.

---

Graduates in medicine may apply for the Degree of Doctor of Dental Surgery, after having passed *two* full years of practical instruction or experience in dentistry, *one* year of which, including one course of lectures, must be spent in this institution.

---

### FEES.

---

Matriculation (paid but once)...	\$ 5 00	Demonstrator of Anatomy's fee.	\$10 00
Tuition.....	120 00	Diploma.....	30 00

---

C. L. GODDARD, Dean,  
131 Post Street, San Francisco, Cal.

# UNIVERSITY OF CALIFORNIA.

---

## DEPARTMENT OF PHARMACY.

---

### FACULTY.

EDWARD S. HOLDEN, LL.D., PRESIDENT OF THE UNIVERSITY OF CALIFORNIA.

WILLIAM T. WENZELL, M.D., PH.G.....PROFESSOR OF CHEMISTRY

HERMANN H. BEHR, M.D.....PROFESSOR OF BOTANY

FREDERICK A. GRAZER, PH.G.....PROFESSOR OF MATERIA MEDICA

EDWARD W. RUNYON, PH.G.....PROFESSOR OF PHARMACY

---

The Sixteenth Annual Course will begin April 2d, 1888, and continue to October 1st of the same year. Lectures will be delivered on Chemistry, Materia Medica, Botany, Theoretical and Practical Pharmacy. Arrangements have been made to provide Laboratory Instruction in Chemical and Pharmaceutical Work, and in every respect efforts will be made to keep pace with the rapid advancement of Pharmaceutical Science.

A gold medal, scientific apparatus, and a free scholarship will be bestowed in each session.

Library and reading room is open daily, and is free to the use of students.

For Prospectus, etc., address,

EDWARD W. RUNYON, PH.G., Dean,

529 and 531 MARKET STREET,

SAN FRANCISCO, CAL.

# UNIVERSITY OF CALIFORNIA.

## UNDERGRADUATE DEPARTMENTS AT BERKELEY.

### INCLUDING

1. COLLEGE OF LETTERS.
  - (a) CLASSICAL COURSE.
  - (b) LITERARY COURSE.
  - (c) COURSE IN LETTERS AND POLITICAL SCIENCE.
2. COLLEGE OF AGRICULTURE.
3. COLLEGE OF MECHANICS.
4. COLLEGE OF MINING.
5. COLLEGE OF CIVIL ENGINEERING.
6. COLLEGE OF CHEMISTRY.

---

### Academic Staff.

- EDWARD S. HOLDEN, LL.D., President of the University.
- GEO. WOODBURY BUNNELL, A.M., Professor of the Greek Language and Literature.
- SAMUEL B. CHRISTY, PH.B., Professor of Mining and Metallurgy.
- ALBERT S. COOK, PH.D., Professor of the English Language and Literature.
- GEO. DAVIDSON, PH.D., Honorary Professor of Geodesy and Astronomy.
- STEPHEN J. FIELD, LL.D., Honorary Professor of Law.
- GEORGE F. E. HARRISON, (1st Lieut. 2d U. S. Artillery), Professor of Military Science and Tactics.
- FREDERICK G. HESSE, Professor of Mechanical Engineering.
- EUGENE W. HILGARD, PH.D., LL.D., Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.
- GEORGE H. HOWISON, LL.D., Mills Professor of Intellectual and Moral Philosophy and Civil Polity.
- A. WENDELL JACKSON, JR., PH.B., Professor of Mineralogy, Petrography and Economic Geology.
- MARTIN KELLOGG, A.M., Professor of the Latin Language and Literature.
- JOHN LeCONTE, M.D., LL.D., Professor of Physics.
- JOSEPH LeCONTE, M.D., LL.D., Professor of Geology and Natural History.
- BERNARD MOSES, PH.D., Professor of History and Political Economy.
- ALBIN PUTZKER, Professor of the German Language and Literature.
- WILLARD B. RISING, M.E., PH.D., Professor of Chemistry.
- FRANK SOULÉ, (U. S. Military Academy), Professor of Civil Engineering and Astronomy.
- IRVING STRINGHAM, PH.D., Professor of Mathematics, Dean of the College of Letters and the Colleges of Science.
- C. B. BDADLEY, A.M., Assistant Professor of the English Language and Literature.
- JOHN B. CLARKE, PH.B., Assistant Professor of Mathematics.
- GEORGE C. EDWARDS, PH.B., Assistant Professor of Mathematics.
- EDWARD LEE GREENE, Assistant Professor of Botany.
- WM. CAREY JONES, A.M., Assistant Professor of History, and Instructor in Constitutional and Roman Law.
- FREDERICK SLATE, Assistant Professor of Physics and Mechanics.
- WILLIAM W. DEAMER, A.B., Instructor in Latin, and Recorder of the Faculties.



HERMANN KOWER, C.E., Instructor in Instrumental Drawing.  
 CHARLES H. LEVERMORE, PH.D., Instructor in History.  
 EDMOND C. O'NEILL, PH.B., Instructor in Chemistry.  
 F. V. PAGET, B.S., B.L., Instructor in the French and Spanish Languages.  
 WM. G. RAYMOND, C.E., Instructor in Civil Engineering.  
 J. HENRY SENGEL, A.B., Instructor in German and Greek.  
 FRANCIS H. STODDARD, A.M., Instructor in English.  
 E. J. WICKSON, A.M., Lecturer on Practical Agriculture and Assistant Superintendent of the Experimental Grounds.

---

JAMES P. H. DUNN, B.S., Assistant in Chemistry.

---

#### ASSISTANTS AND OTHER OFFICERS.

MYER E. JAFFA, PH.B., First Assistant in the Viticultural Laboratory.  
 FREDERICK W. MORSE, PH.B., Assistant in the General Agricultural Laboratory.  
 GEORGE ELDEN COLBY, BH.B., Second Assistant in the Viticultural Laboratory.  
 ADOLPH SOMMER, PH.G., Assistant in Chemistry.  
 HENRY E. DIKEMAN, B.S., Assistant in Physics.  
 WILLIAM J. RAYMOND, B.S., Student Assistant in the Physical Laboratory.  
 FRANKLIN BOOTH, Student Assistant in the Metallurgical Laboratory.  
 JOSEPH A. SLADKY, Superintendent of the Machine Shop.  
 JOSEPH C. ROWELL, A.B., Librarian.  
 J. J. RIVERS, Curator of the University Museum.

## ORGANIZATION OF INSTRUCTION.

---

### GRADUATE COURSES.

To graduates of the University of California, or of other institutions of equal grade, who may wish to pursue advanced work, general or special, every facility is extended that the libraries, laboratories and collections of the University affords. So far as possible, courses of study will be framed to meet the requirements of such students. These courses, with the approval of the proper authority, may be so chosen by the student as to lead, respectively, to a Master's degree, to a Doctor's degree, or to a professional degree in some department of engineering.

### UNDERGRADUATE COURSES.

EIGHT REGULAR COURSES of study are at present established, leading directly, under conditions hereinafter stated, to corresponding degrees, namely:

In charge of the Faculty of the College of Letters :

I. The CLASSICAL COURSE, leading to the degree of A. B.;

II. The LITERARY COURSE, leading to the degree of B. L.;

III. The COURSE IN LETTERS AND POLITICAL SCIENCE, leading to the degree of Ph. B.

In charge, severally, of the respective Faculties of the five Colleges of Science:

IV. The COURSE IN AGRICULTURE ;

V. The COURSE IN MECHANICS ;

VI. The COURSE IN MINING ;

VII. The COURSE IN CIVIL ENGINEERING ;

VIII. The COURSE IN CHEMISTRY ;

Each of which leads regularly to the degree of B. S.

To each of these Regular Courses there pertains an established curriculum of studies, prescribed and elective, arranged in the order of four successive years.

There are permitted, in addition, COURSES AT LARGE and PARTIAL COURSES, not leading directly to any degree, but through each of which, on the conditions pertaining to the status of the student pursuing it, as specified in the Joint Regulations of the Faculties, some one of the above-named degrees is possibly attainable.

## CONDITIONS OF ADMISSION AND RESIDENCE.

---

### GENERAL LIST OF PREPARATORY SUBJECTS.

Applicants for admission to undergraduate courses must be at least sixteen years of age, must deposit with the Recorder a certificate of good moral character, and must pass a satisfactory examination in such of the following Subjects as are designated for the Course and Status sought:

I. ENGLISH. A short composition, correct in spelling, punctuation, paragraphing and grammar, upon a subject announced at the time of the examination, and taken, until further notice, from the following works : Tom Brown's School Days at Rugby ; Scott's Lady of the Lake ; Irving's Alhambra ; Thackeray's Newcomes ; Shakespeare's Merchant of Venice and Julius Cæsar (Rolfe's, or the Clarendon Press edition).

Applicants will also be required to analyze sentences from these works, and to pass an examination on the first seventy-one lessons in Kellogg's Text book on Rhetoric.

2. **ARITHMETIC.** Including the metric system. The technical parts of Commercial Arithmetic, viz: banking, profit and loss, commission, taxes, duties, stocks, insurance, exchange and average of payments, are not insisted on.

3. **ALGEBRA.** (a) To Quadratic Equations, including the various methods of factoring, the theory of exponents, integral and fractional, positive and negative, and the calculus of radicals.

(b) Quadratic Equations, both single and simultaneous, their solution and their theory, including all the recognized methods of solution and all equations reducible to the quadratic form; formation of equations from given roots.

4. **PLANE GEOMETRY.** (a) All of plane geometry, except the metrical properties of regular polygons and the measurement of the circle.

(b) The general properties of regular polygons, their construction, perimeters, and areas; and the measurement of the circle, including the different methods for determining the ratio of the circumference to the diameter.

5. **HISTORY AND GEOGRAPHY.** History of the United States, and the general facts of Physical and Political Geography. Barnes' Brief History of the United States, and the geographies used in the first grade grammar schools, will serve to indicate the amount of knowledge expected.

6. **LATIN.** Caesar, Gallic War, Books I.-IV. (or Civil War, Books I.-II.); Cicero, the Four Catilinarian Orations; with questions, in both cases, on the implied grammar, the subject-matter and the corresponding archaeology; translation into Latin of simple English sentences.

7. **LATIN.** Cicero, the Orations *Pro Archia Poeta* and *Pro Lege Manilia*; Vergil, Aeneid, Books I.-VI.; with questions in both cases, on the implied grammar, the subject-matter and the corresponding archaeology, and, in the case of Vergil, on the prosody; sight translation of easy Latin prose; translation into Latin of brief connected narratives.

8. **GREEK.** Xenophon, Anabasis, Book I., with questions on the subject-matter, archaeology and grammar (with especial reference to etymology); White's First Lessons in Greek, lessons I.-LX.; translation into Greek of simple English sentences.

9. **GREEK.** Xenophon, Anabasis, Books II.-IV., or Goodwin's Greek Reader, pp. 37-111; Homer, Iliad, Books I.-II., omitting the catalogue of ships; with questions on the grammar (with especial reference to etymology), subject-matter, archaeology and prosody; Jones' Greek Prose Composition, or its equivalent; sight translation of easy Greek prose.

10. **ANCIENT HISTORY AND GEOGRAPHY.** (a) Greek History to the death of Alexander, with the connected Geography.

(b) Roman History to the death of Commodus, with the connected Geography.

Smith's Smaller History of Greece, and Smith's Smaller (or Leighton's) History of Rome, will serve to indicate the amount required.

11. **PHYSICS.** The elements of the subject, taught experimentally, as shown in some such work as Gage's Elements of Physics; Peck's Ganot (or a real equivalent) will include the topics required.

12. Any one of the following:

(a) **CHEMISTRY.** The elements of Chemistry (Eliot and Storer's Chemistry, Avery's Elementary Chemistry, or a thorough acquaintance with Mead's Chemical Primer). An examination in more advanced chemistry will be offered to any who wish it. Success in such examination will give the student admission to the

chemical laboratory. Applicants who pass with honors will be assigned to an advanced division.

(b) BOTANY. The elements of Botany. An accurate knowledge of Part I. of Gray's *How Plants Grow*, and an acquaintance with the more prominent native or cultivated plants, their structure and botanical affinities.

(c) PHYSIOLOGY. The elements of Physiology (Hutchison's, or an equivalent).

(d) MINERALOGY. The elements of Mineralogy. A good knowledge of the physical properties of minerals in general. Ability to determine, by their physical properties alone, twenty-five of the commonest minerals, and to give the reasons for the determination. First seventy-two pages of Nicol's *Manual of Mineralogy*, or first seventy-five pages of Dana's, third edition.

(e) PLANE TRIGONOMETRY. The development of the general formulæ of plane trigonometry, solution of plane triangles, and practice in the use of logarithmic tables. Four-place logarithmic tables are furnished for use in the examination.

(f) FREE-HAND DRAWING. Line drawing from models, copying of patterns, etc. Particular attention is given to correctness of form and smoothness of outline. The applicant will be tested in that free-hand use of the pencil which will be of most immediate value to him in pursuing the subject of mechanical drawing and mapping.

13. HISTORY. History of England and the English People, by G. W. Cox (London: 1887), will indicate the amount. General history will be accepted instead, in unusual cases.

14. ENGLISH. The examination in this subject will presuppose thorough study of the selections named below. The candidate should be prepared to elucidate in full the meaning of any passage in the works assigned; to paraphrase such passage; to point out the rhetorical figures in it; to answer questions concerning the lives of the authors and the subject-matter and structure of the works studied. The history of words should also receive attention, Skeat's *Etymological Dictionary* being taken as the authority. For the present, the examination in word-derivation will be limited to Spenser's *Prothalamion*.

Until further notice, the examination will be upon the following works: Scott's *Lay of the Last Minstrel*; Whittier's *Snow-Bound*; Longfellow's *Evangeline*; Lowell's *Sir Launfal*; Sir Roger de Coverley; Burke's *Works*, edited by Payne, Vol. I.; and Hales' *Longer English Poems*, omitting Wordsworth's *Laodamia* and Shelley's *Adonais*.

SPECIMEN PAPERS. Specimen examination papers in the foregoing subjects are contained in the Admission Circular [Bulletin No. 6], which will be sent to any address on application to the RECORDER OF THE FACULTIES, Berkeley, California.

## GROUPS OF SUBJECTS FOR THE SEVERAL COURSES.

Of the foregoing Subjects, one of the following four groups, or parts of them, must be taken, according to the Course and Status applied for:

I. For the Classical Course.—Subjects 1, 2, 3a, 4a, 5, 6, 7, 8, 9 and 10.

II. For the Literary Course.—Subjects 1, 2, 3a, 4a, 5, 6, 7, 10, 13 and 14.

III. For the Course in Letters and Political Science.—Subjects 1, 2, 3a, 4a, 5; and either 6, 7, 8, 9 and 10; or 6, 7, 10, 13 and 14; or 3b, 4b, 11, 12, and either 6 or 14.



A signal failure in Subject 14 will exclude the applicant from this Course.

IV. For any of the five Courses in Science.—Subjects 1, 2, 3 (*a* and *b*), 4 (*a* and *b*), 5, 11, 12, and either 6 or 14.

For a Course at Large, either of the four groups required for admission to a Regular Course, as the applicant may elect. And in case the applicant proposes, if admitted, to take any study out of the prescribed order, all of the examinations required for its pursuit by a Regular Student must be passed before admission.

For a Special Course, such of the General List of Subjects as, in the judgment of the professors or instructors in charge of the special line of studies intended, are requisite for its proper pursuit. The list thus approved must be deposited with the Recorder before the examination. No applicant who has failed in the entrance examination for a Regular Course or a Course at Large will be allowed to take a Special Course.

For a Limited Course, Subjects 1, 2, 3*a*, 4*a*, and 5; and, in addition, any in the General List that are requisite to the studies sought by the applicant; if advanced studies are sought, the applicant must pass all the examinations conditional to them that are required of Regular Students. The exact list of requisite subjects must be ascertained through the Recorder, and deposited with him before the examination.

Applicants who pass their entire entrance examination without conditions will be credited with honors in the subjects in which they pass with especial excellence.

#### TIMES AND PLACES OF EXAMINATION.

In June, 1888, the First Entrance Examination will be held simultaneously at Berkeley, Los Angeles, Chico, and Grass Valley. It will continue through the Thursday, Friday, and Saturday following the annual Commencement in the College of Letters and the College of Science.

In September, the Second Entrance Examination will be held, at Berkeley only. It will continue through Thursday, Friday and Saturday, the first three days of the first term.

No applicant for admission will be examined at any other time, except for reasons of the most exceptional urgency.

#### DIVIDED ENTRANCE EXAMINATIONS.

Any applicant for admission to a Regular Course, or to a Course at Large may, at option, pass the entire entrance examination at one time or divide it between two years, passing part of it as a Preliminary Examination in one year, and completing the remainder the next year. But neither the preliminary examination, nor the remainder, in completion, may be divided between the June and September examinations of the same year.

Applicants will not be admitted to the preliminary examination without certificates from their teachers that they are prepared in the subjects they offer. These certificates must be addressed to the RECORDER OF THE FACULTIES, Berkeley. and must be in his hands previous to the examination.

Certificates of preliminary examination will only be issued for subjects passed without conditions, nor will any certificate be issued to an applicant who does not pass in at least five of the subjects offered. These subjects must be confined to Subjects 1, 2, 3*a*, 4*a*, 5, 6, 8, 10 (*a* or *b*), 11 and 13 of the General List, which must be grouped for the several Courses as follows :



THE LIBRARY OF THE  
FEB 26 1901

I. For the Classical Course, Subjects 1, 2, 3a, 4a, 5, 6, 8 and 10 (a or b).

II. For the Literary Course, Subjects 1, 2, 3a, 4a, 5, 6, 10 (a or b), and 13.

III. For the Course in Letters and Political Science, Subjects 1, 2, 3a, 4a, 5; and either 6, 8 and 10 (a or b); or 6, 10 (a or b), and 13; or 11 and 6.

IV. For any of the five Courses in Science, Subjects 1, 2, 3a, 4a, 5, 11 and 6.

For a Course at Large, either of the preceding groups. But for no course will an examination be granted on part of a Subject.

#### ADMISSION FROM APPROVED PUBLIC SCHOOLS.

The following Regulation has been adopted by the Board of Regents :

"Upon the request of the Principal of any public school in California whose course of study embraces, in kind and extent, the subjects required for admission to any College of the University at Berkeley, a committee of the Academic Senate will visit such school, and report upon the quality of the instruction there given. If the report of such committee be favorable, a graduate of the school, upon the personal recommendation of the Principal, accompanied by his certificate that the graduate has satisfactorily completed the studies of the course preparatory to the College he wishes to enter, may, at the discretion of the Faculty of such College, be admitted without examination.

"All applications made in accordance with the provisions of the foregoing paragraph must be in the hands of the Recorder of the Faculties at Berkeley, on or before the twenty-first of March of each year."

#### EXPENSES OF STUDENTS.

Each student, on entering any of the colleges at Berkeley, is required to deposit ten dollars with the Secretary. This deposit, if the student graduates, will constitute the payment for his diploma. If he leaves the University before graduation, the money will be returned to him on presentation of the Secretary's receipt for it.

Tuition in the College of Letters and the Colleges of Sciences is free. In the chemical laboratory a small charge is made for chemicals.

Every member of the battalion is required to procure a uniform on entrance.

Board and lodging may be obtained in private families at Berkeley and Oakland at from eighteen dollars to thirty dollars a month. The hours of recitation are such that many students reside in Oakland and San Francisco. The journey from San Francisco to the University requires about fifty minutes.

Students in the College of Agriculture can occasionally find work in connection with the instruction in agriculture and horticulture. Several students find occasional employment in the University printing office at a fair compensation.

*More detailed information concerning the foregoing matters, and concerning the Academic and Scientific Departments in general, is contained in the Admission Circular (Bulletin No 6), and the University Register, either of which will be sent to any address, on application to the RECORDER OF THE FACULTIES, Berkeley, California.*

